## STIC-Biotech/ChemLib

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From:

Fredman, Jeffrey

Sent:

Wednesday, July 02, 2003 12:51 PM

To: Cc: STIC-Biotech/ChemLib

Subject:

Schultz, James FW: Rush Sequence search request 09/780,929

PLEASE RUSH.

I Approve.

Jeff Fredman

OR CE

----Original Message----

From:

Schultz, James

Sent:

Wednesday, July 02, 2003 9:38 AM

To:

Fredman, Jeffrey

Subject:

Rush Sequence search request 09/780,929

Dear Jeff,

Would you please approve the rush sequence search below? This case has already been searched and is ready for allowance, but my SPE wants it searched one more way before we pass it out.

Thanks,

Doug Schultz

Dear STIC-biotech searchers,

Could you please run a length limited nucleotide sequence search on SEQ ID NOS 97 (15 nt long) and 98 (18 nt long) in the above entitled case, where the maximum size of the returned hit is no longer than 60 nucleotides? I need both sequences searched in the **interference** databases as well.

Thanks,

Doug Schultz

J. Douglas Schultz, Ph.D.
AU 1635 (Biotechnology)
Patent Examiner
United States Patent and Trademark Office
(703) 308-9355
(703) 746-3973 (fax)
Office: CM1 12E18
Mail: CM1 11E12

Searcher:	
Phone:	
Location:	_
Date Picked Up:	_
Searcher Prep/Review:	_
Clerical:	
Online time:	

TYPE OF SEARCH:
NA Sequences:
AA Sequences:
Structures:
Bibliographic:
Litigation:
Full text:
Patent Family:

VENDOR/COST (where application)	c.)
DIALOG:	_
Questel/Orbit:	_
DRLink:	
Lexis/Nexis:	_
Sequence Sys.:	
WWW/Internet:	
Other (specify):	

511942, 735345, 834196,

907847

us-09-780-929-97.szlm60.rnpn

Sequence:

Run on:

Searched:

Database

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Sequence 166264,
Sequence 525766,
Sequence 674310,
Sequence 95587, A
Sequence 141609,
Sequence 141609,
Sequence 14590,
Sequence 165169,
                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 133, App
Sequence 359, App
                                                                                                                                                                                 Sequence 568077,
Sequence 695630,
Sequence 928248,
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Sequence 100324,
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GENERAL INFORMATION:
APPLICANT: Mitchaen, Michael
TITLE OF INVENTION: Methods of Genetic Analysis of Probes: HG-U133
FILE REFERENCE: 3121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1 SEQ ID NO 24855
LENGTH: 25
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US-10-355-577-40591

US-10-355-577-366476

US-10-355-577-511942

US-10-355-577-911942

US-10-355-577-914196

US-10-355-577-907847

US-60-427-808-695630

US-60-427-808-695630

US-60-427-808-695630

US-60-427-808-695630

US-60-427-808-55766

US-60-427-808-55867

US-60-427-808-55867

US-60-427-808-55867

US-60-427-816-51609

US-60-427-816-51609

US-60-469-545-141609

US-60-469-545-141609

US-60-469-545-141609

US-10-408-085-359

US-10-408-085-359

US-10-310-188-49187

US-10-310-188-49187

US-10-310-188-49187

US-10-310-188-49187

US-10-310-315-577-53971

US-10-315-577-53875

US-10-315-577-653875

US-10-355-577-653875
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Pred. No. 1.9e+03;
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GENERAL INFORMATION:
APPLICANT: Xue Mei Zhou
ITTLE OF INVENTION: Methods of Genetic Analysis of
FILE REFERENCE: 3527
CURRENT APPLICATION NUMBER: US/60/427,836
CURRENT FILING DATE: 2002-11-20
NUMBER OF SEQ ID NOS: 699466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/10/355,577
CURRENT FILING DATE: 2003-01-31
NUMBER OF SEQ ID NOS: 997516
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Best Local Similarity 73.3
Matches 11; Conservative
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; ORGANISM: Homo sapien
US-10-355-577-24855
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Sequence 75880, A
Sequence 72812, A
Sequence 72812, A
Sequence 48322, A
Sequence 48329, A
Sequence 10200, A
Sequence 16620, A
Sequence 16620, A
Sequence 16620, A
Sequence 16620, A
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Sequence 243678,
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Sequence 179244,
                                                                                                                                                                      (without alignments)
206.249 Million cell updates/sec
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1: /cgn2_6/ptodata/2/pna/PCT_NEW_COMB.seq:*

2: /cgn2_6/ptodata/2/pna/PCT_NEW_COMB.seq:*

3: /cgn2_6/ptodata/2/pna/PCT_NEW_COMB.seq:*

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5: /cgn2_6/ptodata/2/pna/US06_NEW_COMB.seq:*

6: /cgn2_6/ptodata/2/pna/US06_NEW_COMB.seq:*

7: /cgn2_6/ptodata/2/pna/US06_NEW_COMB.seq:*

6: /cgn2_6/ptodata/2/pna/US08_NEW_COMB.seq:*

7: /cgn2_6/ptodata/2/pna/US08_NEW_COMB.seq:*

9: /cgn2_6/ptodata/2/pna/US09_NEW_COMB.seq:*

11: /cgn2_6/ptodata/2/pna/US09_NEW_COMB.seq:*

12: /cgn2_6/ptodata/2/pna/US09_NEW_COMB.seq:*

13: /cgn2_6/ptodata/2/pna/US10_NEW_COMB.seq:*

4: /cgn2_6/ptodata/2/pna/US10_NEW_COMB.seq:*

6: /cgn2_6/ptodata/2/pna/US10_NEW_COMB.seq:*

7: /cgn2_6/ptodata/2/pna/US10_NEW_COMB.seq:*

6: /cgn2_6/ptodata/2/pna/US10_NEW_COMB.seq:*

7: /cgn2_6/ptodata/2/pna/US10_NEW_COMB.seq:*
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/cgn2_6/ptodata/2/pna/U510_nsw_COMB.seq3:*
/cgn2_6/ptodata/2/pna/U550_nsw_COMB.seq4:*
/cgn2_6/ptodata/2/pna/U560_nsw_COMB.seq:*
/cgn2_6/ptodata/2/pna/U560_nsw_COMB.seq:*
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                  5.1.6
Compugen Ltd.
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US-60-427-836-786
US-10-355-577-179244
US-60-427-836-118114
US-10-310-188-75880
US-09-660-222-72811
US-09-953-570-48322
US-09-953-570-48322
US-09-954-445A-10200
US-09-954-445A-16612
US-09-954-445A-16612
US-09-954-445A-16612
US-09-954-445A-16612
US-09-954-445A-16612
US-09-954-445A-16612
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                  version:
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Maximum Match 100%
Listing first 45 summaries
                                                                                                   nucleic search, using sw model
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Gapop 10.0 , Gapext 1.0
                GenCore Copyright (c) 1993
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15
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Match Length
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                                                                                                                                                                                                                                                         Perfect score:
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45892, A 27903, A 53971, A 143487,

518580, 653875, 827041,

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Gaps

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Result Ņ.

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TITLE OF INVENTION: BIOINFORMATICALLY DETECTABLE GROUP OF NOVEL VIRAL REGULATORY TITLE OF INVENTION: USES THEREOF
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PUBLICATION INFORMATION:
DATABASE ACCESSION NUMBER: GenBank S80343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQ ID NOS: 140981
SORTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 72812
LENGTH: 25
                             FILE REFERENCE: 47487
CURRENT APPLICATION NUMBER: US/10/310,188
CURRENT FILING DATE: 2002-12-19
SUMBER OF SEQ ID NOS: 86841
SEQ ID NO 75880
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 140981
SOFWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 72811
LENGTH: 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILE REFERENCE: 3102.1
CURRENT APPLICATION NUMBER: US/09/660,222
CURRENT FILING DATE: 2000-09-12
PRIOR APPLICATION NUMBER: 60/164,973
PRIOR FILING DATE: 1999-11-11
                                                                                                                                                                                                                                                 82.78;
78.68;
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78.6%;
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Best Local Similarity 78.6
Matches 11; Conservative
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Best Local Similarity. 78.6
Matches 11; Conservative
                                                                                                                                                                        TYPE: DNA
CORGANISM: Homo sapiens
US-10-310-188-75880
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TITLE OF INVENTION: Methods of Genetic Analysis of Probes: HG-U133
FILE REFERENCE: 3121
CURRENT APPLICATION NUMBER: US/10/355,577
CURRENT FILING DATE: 2003-01-31
NUMBER OF SEQ ID NOS: 997516
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
SEQ ID NO 179244
LENGTH: 25
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); Sequence 118114, Application US/60427836
); GRNERAL INFORMATION:
); APPLICANT: Xue Mei Zhou
); TITLE OF INVENTION: Methods of Genetic Analysis of Rat;
); TITLE OF INVENTION: Wethods of Genetic Analysis of Rat;
); CURRENT APPLICATION NUMBER: US/60/427,836
); CURRENT FILING DATE: 2002-11-20
); NUMBER OF SEQ ID NOS: 699466
); SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
); SEQ ID NO 118114
                                                                                                                                     Length 25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 13; DB 18; Length 25;
Pred. No. 3.18+03;
2; Mismatches 0; Indels
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Pred. No. 3.1e+03;
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SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1 SEQ ID NO 243678 LENGTH: 25
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                                                                                                                                 DB 18;
                                                                                                                                   Score 13.4; DB 18
Pred. No. 1.9e+03;
; Mismatches 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2; Mismatches
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; Sequence 179244, Application US/10355577
; GENERAL INFORMATION:
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84.6%;
                                                                                                                                 89.3%;
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84.6%;
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                                                                              ; ORGANISM: Rattus norvegicus US-60-427-836-243678
                                                                                                                                                                                                                               21 AGATAAAGTGAAGAT 7
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Best Local Similarity 84.6
Matches 11; Conservative
                                                                                                                                   Query Match 89.3
Best Local Similarity 73.3
Matches 11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: RosettaGemonics
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US-10-355-577-179244
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Best Local Similarity
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                                                          TYPE: DNA
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  Length 23;
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                                            Indels
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GENERAL INFORMATION:
APPLICANT: Mittmann et al.
APPLICANT: Affymetrix, Inc.
TITLE OF INFUNTION: Methods of Genetic Analysis of Human FILE REFERENCE: 3102.1
CURRENT APPLICATION NUMBER: US/09/660,222
CURRENT FILING DATE: 2000-09-12
PRIOR APPLICATION NUMBER: 60/164,973
PRIOR FILING DATE: 1999-11-11
                                                                                                                                                                                                                                                Sequence 72811, Application US/09660222
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Mittmen t al.
APPLICANT: Affymetrix, Inc.
TITLE OF INVENTION: Methods of Genetic Analysis of Human
Score 12.4; DB 14;
Pred. No. 6.7e+03;
2; Mismatches 1;
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Pred. No. 6.7e+03;
2; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Homo Sapiens
PUBLICATION INFORMATION:
DATABASE ACCESSION NUMBER: Genbank S80343
US-09-660-222-72811
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RESULT 12
US-09-954-445A-16620
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                                                                                                                                                         TYPE: DNA
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                                                                     Gaps
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APPLICANT: Mittmann, Michael
TITLE OF INVENTION: Methods of Genetic Analysis of Arabidopsis Thaliana
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                                     Length 25;
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US-09-953-570-48329/c
Sequence 48329, Application US/09953570
GENERAL INFORMATION:
APPLICANT: Mittmann, Michael
TITLE OF INVENTION: Methods of Genetic Analysis of Yeast
FILE REFERENCE: 3110.1
CURRENT PILIAG DATE: 2001-09-13
PRIOR APPLICATION NUMBER: 60/232,638
PRIOR FILING DATE: 2000-09-14

PRIOR FILING DATE: 2000-09-14
                                                                                                                                                                            RESULT 8
US-09-953-570-48322/C
Sequence 48322, Application US/09953570
Sequence 48322, Application US/09953570
SERVERAL INFORMATION: Mithman, Michael
TITLE OF INVENTION: Methods of Genetic Analysis of Yeast
FILE REFERENCE: 3110.1
CURRENT APPLICATION NUMBER: US/09/953,570
CURRENT FILING DATE: 2001-09-13
PRIOR PILING DATE: 2000-09-14
NUMBER OF SEQ ID NOS: 138410
SOFTWARE: FEASTSEQ for Windows Version 4.0
SEQ ID NO 48322
LENGTH: 25
                                                                     Indels
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                                   Score 12.4; DB 10;
Pred. No. 6.7e+03;
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Pred. No. 6.7e+03;
2; Mismatches 1;
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Pred. No. 6.7e+03;
2; Mismatches 1;
                                                                  2; Mismatches
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 48329
LENGTH: 25
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; ORGANISM: Saccharomyces Cerevisiae US-09-953-570-48329
                                  82.7%;
78.6%;
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78.6%;
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78.6%;
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               22 AGATAACGTGCAGA 9
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Best Local Similarity 78.69
Watches 11; Conservative
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Best Local Similarity 78.6
Matches 11; Conservative
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JS-09-660-222-72812
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GENERAL INFORMATION:
APPLICAMY: Mitthman, Michael
TITLE OF INVENTION: Methods of Genetic Analysis of Arabidopsis Thaliana
FILE REFERENCE: 3116.1
CURRENT APPLICATION NUMBER: US/09/954,445A
CURRENT FILING DATE: 2000-09-17
PRIOR PILING DATE: 2000-09-18
NUMBER OF SEQ ID NOS: 131820
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
SEQ ID NO 16612
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GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Mitchaen
TILLE OF INVENTION: Methods of Genetic Analysis of Arabidopsis Thaliana
FILE REFERENCE: 3116.
CURRENT APPLICATION NUMBER: US/09/954,445A
CURRENT FILING DATE: 2000-09-17
PRIOR APPLICATION NUMBER: 60/233,620
PRIOR FILING DATE: 2000-09-18
NUMBER OF SEQ ID NOS: 131820
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FILE REFERENCE: 3116.1

CURRENT APPLICATION NUMBER: US/09/954,445A

CURRENT FILING DATE: 2000-09-17

PRIOR APPLICATION NUMBER: 60/233,620

PRIOR FILING DATE: 2000-09-18

NUMBER OF SEQ ID NOS: 131820

SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

SEQ ID NO 10200

LENGTH: 25
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LENGTH: 25
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Pred. No. 6.7e+03;
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Pred. No. 6.7e+03;
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                                                                                                                                                                                                                                                                                                                                                            2; Mismatches
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; ORGANISM: Arabidopsis thaliana
US-09-954-445A-16620
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71.4%;
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Best Local Similarity 78.6%;
Matches 11; Conservative
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Matches 10; Conservative
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                                                                                                                                                                               APPLICANT: Mittmann, Michael
TILLE OF INVENTION: Methods of Genetic Analysis of Arabidopsis Thaliana
TILLE OF INVENTION: Methods of Genetic Analysis of Arabidopsis Thaliana
TILLE OF INVENTION: Methods of Genetic Analysis of Arabidopsis Thaliana
CURRENT APPLICATION WUMBER: US/09/954,445A
CURRENT FILING DATE: 2000-09-17
PRIOR FILING DATE: 2000-09-18
NUMBER OF SEQ ID NOS: 131820
SOFTWARES MICROALRAY Probe Sequence Listing Generator V 1.1
SEQ ID NO 5048
LENGTH: 25
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GENERAL INFORMATION:
APPLICANT: Mitthann, Michael
TITLE OF INVENTION: Methods of Genetic Analysis of Probes: HG-Ul33
FILE REFERENCE: 3121
CURRENT APPLICATION NUMBER: US/10/355,577
CURRENT FILING DATE: 2003-01-31
NUMBER OF SEQ ID NOS: 997516
SOFTWARE: Microairay Probe Sequence Listing Generator V 1.1
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GENERAL INFORMATION:
APPLICANT: Mitchael
TITLE OF INVENTION: Methods of Genetic Analysis of Probes: HG-U133
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Pred. No. 6.7e+03;
3; Mismatches 1; Indels
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CURRENT APPLICATION NUMBER: US/10/355,577
CURRENT FILING DATE: 2003-01-31
NUMBER OF SEQ ID NOS: 997516
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
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Pred. No. 6.7e+
1; Mismatches
                                                                                                                       US-09-954-445A-50048; Sequence 50048, Application US/09954445A; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; ORGANISM: Arabidopsis thaliana
US-09-954-445A-50048
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Best Local Similarity 85.7%;
Matches 12; Conservative
2 GAUAACGUGAAGAU 15
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| GATAACGIGAATAT 14
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Best Local Similarity 71.4
Matches 10; Conservative
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US-10-355-577-40591
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LENGTH: 25
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LENGTH: 25
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GenCore version 5.1.6 Copyright (c) 1993 - 2003 Compugen Ltd.	eic – nucleic search, using sw model	July 6, 2003, 14:26:16 ; Search time 493.182 Seconds (without alignments) 885.154 Million cell updates/sec	US-09-780-929-97 score: 15 e: 1 agauaacgugaagau 15	table: IDENTITY_NUC Gapop 10.0 , Gapext 1.0	d: 2054640 seqs, 14551402878 residues	umber of hits satisfying chosen parameters: 897812	DB seq length: 0 DB seq length: 60	Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries	e:: GenEmbl:*  1: 9b_ba:* 2: 9b_ba:* 3: 9b_in:* 4: 9b_on:* 5: 9b_on:* 6: 9b_on:* 7: 9b_pl:* 8: 9b_pl:* 10: 9b_pl:* 11: 9b_st:*	
		Run on:	Title: Perfect score: Sequence:	Scoring table:	Searched:	Total number of		Post-processing	Database :	

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Description	AX214295 Sequence AX214237 Sequence AX214243 Sequence AX214241 Sequence AX214242 Sequence AX214243 Sequence AX214243 Sequence AX214245 Sequence AX214245 Sequence AX214245 Sequence AX214245 Sequence AX214245 Sequence AX21425 Sequence AX21426 Sequence AX21427 Sequence	linear PAT 06-SEP-2001
ΩI	AX214295 AX214239 AX214240 AX214241 AX214241 AX214243 AX214244 AX214244 AX214246 AX214246 AX214240 AX214250 AX214250 AX214250 AX214250 AX214250 AX214250 AX214250 AX214250 AX214250 AX214260 AX214260 AX214260 AX214270	15 bp mRNA 1372 5. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.
% Query ore Match Length DB	115 100 . 0 . 2 . 2 . 8 . 6 . 115 100 . 0 . 2 . 8 . 6 . 115 100 . 115 100 . 0 . 2 . 8 . 6 . 115 100 . 0 . 2 . 8 . 6 . 115 100 . 0 . 2 . 8 . 6 . 115 100 . 0 . 2 . 8 . 6 . 115 100 . 0 . 2 . 8 . 6 . 115 100 . 0 . 2 . 8 . 6 . 115 100 . 0 . 2 . 8 . 6 . 115 100 . 115 100 . 0 . 2 . 8 . 6 . 115 100 . 0 . 2 . 8 . 6 . 115 100 . 0 . 2 . 8 . 6 . 115 100 . 115 10	AX214295 Sequence 108 from Patent W001 AX214295 AX214295.1 GI:15524372 Synthetic construct. synthetic construct artificial sequences. I (bases 1 to 15) Breaker, R. and Emilsson, G. Nucleozymes with endonuclease Patent: W0 0159102-A 108 16-A RIBOZYME PHARMACEUTICALS, INC
Result No. Scor	11111111111111111111111111111111111111	RESULT 1 AX214295 LOCUS LOCUS DEFINITION ACCESSION VERSION KEYWORDS SOURCE ORGANISM REFERENCE AUTHORS TITLE JOURNAL

Gaps

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PAT 06-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PAT 06-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /note="n stands for inverted deoxyabasic derivative" 3\ c 9\ g 4\ t 1\ others
                 /note="n stands for inverted deoxyabasic derivative"
                                                                                                                                                                                                                                                                                                                                                                  Nucleozymes with endonuclease activity
Patent: WO 0159102-A 51 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US) ; Yale University (US)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 (bases 1 to 28)
Breaker, R. and Emilsson, G.
Breaker, R. and Emilsson, G.
Wucleozymes with endonuclease activity
Patent: WO 0159102-A 53 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US); Yale University (US)
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                                                                         Length
                                               Score 15; DB 6; Len
No. 9.3e+02;
0;
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A No. 9.3e+02;
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/organism="synthetic construct"
/db_xref="taxon:32630"
/note="Nucleic Acid"
1. 5
                                                                                                                                                                                                                             mRNA
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/db_xref="taxon:32630"
/note="Nucleic Acid"
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                                                                                     Pred. No. 9.36
3; Mismatches
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3; Mismatches
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Sequence 53 from Patent WO0159102.
AX214240
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    .5
    /note="2'-0-Methyl"

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/note="2'-0-Methyl"
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1 (bases 1 to 28)
Breaker, R. and Emilsson, G.
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AX214238
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AX214240
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Patent: Wo 0159102-A 52 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US); Yale University (US)
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Patent: WO 0159102-A 50 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US) ; Yale University (US)
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ijarity 80.0%; Pred. No. 9.9e+02;
Conservative 3; Mismatches 0;

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    /organism="synthetic construct"
/db_xref="taxon:32630"
    /note="Nucleic Acid"

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    28
        /organism="synthetic construct"
        /db_xref="taxon:32630"
        /note="Nucleic Acid"

    .27 / Organism="synthetic construct"
/db_xref="taxon:32630"
/note="Nucleic Acid"

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Sequence 50 from Patent W00159102.
AX214237
AX214237.1 GI:15524314
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    .6
/note="2'-0-Methyl"

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/note="2'-0-Methyl"
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1 (bases 1 to 28)
Breaker, R. and Emilsson, G.
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1 (bases 1 to 27)
Breaker, R. and Emilsson, G.
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/db_xref="taxon:32630"
/note="Nucleic Acid"
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AX214243
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                                                 /note="n stands for inverted deoxyabasic derivative"
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Patent: WO 0159102-A 54 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US); Yale University (US)
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synthetic construct
artificial sequences.
1 (bases 1 to 28)
Breaker, R. and Emilsson, G.
Nucleozymes with endonuclease activity
Patent: WO 0159102-A 55 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US); Yale University (US)
Location/Qualifiers
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Pred. No. 9.3e+02;
3; Mismatches 0; Indels
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/organism="synthetic construct"
/db_xref="texon:32630"
/note="Nucleic Acid"
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Sequence 55 from Patent W00159102.
AX214242 GI:15524319
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Sequence 54 from Patent W00159102.
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/note="2'-0-Methyl"
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'note="2'-0-Methyl"
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/note="2'-0-Methyl"
'note="2'-0-Methyl"
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artificial sequences.
1 (bases 1 to 28)
Breaker, R. and Emilsson, G.
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AX214241.1 GI:15524318
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1 (bases 1 to 28)
Breaker,R. and Emilsson,G.
Nucleozymes with endonuclease activity
Patent: WO 0159102-A 57 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US); Yale University (US)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nucleozymes with endonuclease activity
Patent: WO 0159102-A 55 16-AUG-2001;
RIBOZYME PHARMACEUTICAS, INC. (US); Yale University (US)
Location/Qualifiers
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Squence 56 from Patent W00159102.
AX214243 GI:15524320
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Sequence 57 from Patent WO0159102
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/note="2'-0-Methyl"
                               /note="2'-0-Methyl"
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/note="2'-0-Methyl"

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artificial sequences.
1 (bases 1 to 28)
Breaker, R. and Emilsson, G.
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Best Local Similarity 80.0%;
Matches 12; Conservative 3
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Best Local Similarity 80.0%;
Matches 12; Conservative 3
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/note="n stands for inverted deoxyabasic derivative"
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Breaker, R. and Emilsson, G.
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Patent: WO 0159102-A 60 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US); Yale University (US)
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Pred. No. 9.3e+02;
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Pred. No. 9.3e+02;
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/organism="synthetic construct"
/db_xref="taxon:32630"
/note="Nucleic Acid"

    .28
/organism="synthetic construct"
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/note="Nucleic Acid"

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Sequence 61 from Patent WO0159102.
AX214248
AX214248 GI:15524325
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Sequence 60 from Patent WO0159102.
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28
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/note="2'-0-Methyl"
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9
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artificial sequences.
1 (bases 1 to 28)
Breaker,R. and Emilsson,G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3;
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7 AGATAACGTGAAGAT 21
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7 AGATAACGTGAAGAT 21
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Best Local 2; Conservative
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Best Local Similarity 80.0
Matches 12; Conservative
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AX214247
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AX214248
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KEYWORDS
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artificial sequences.
I (bases 1 to 28)
Breaker, and Emilson, G.
Nucleozymes with endonuclease activity
Patent: WO 0159102-A 58 16-AUG-2001;
RIBOZYME PHARMACBUTICALS, INC. (US); Yale University (US)
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                                              /organism="synthetic construct"
/db_xref="taxon:32630"
/note="Nucleic Acid"
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Pred. No. 9.3e+02;
3; Mismatches 0
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Pred. No. 9.3e+02;
3; Mismatches 0

    .28
        /organism="synthetic construct"
        /db.xref="taxon.32630"
        /note="Nucleic Acid"

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Sequence 58 from Patent WO0159102.
AX214245
Location/Qualifiers
1. 28

    .6
    /note="2'-0-Methyl"

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'note="2'-0-Methyl"
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/note="2'-0-Methyl"
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/note="2'-0-Methyl"
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80.0%; I
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synthetic construct
artificial sequences..
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7 AGATAACGTGAAGAT 21
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Best Local Similarity 80.09
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Best Local Similarity 80.0°
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AX214250
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synthetic construct.
synthetic construct
synthetic construct
artificial sequences.
1 (bases 1 to 28)
Breaker,R. and Emilsson,G.
Nucleozymes with endonuclease activity
Patent: WO 0159102-A 61 16-AuG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US); Yale University (US)
Location/Qualifiers
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Breaker, R. and Emilsson, G.
Breleczymes with endonuclease activity
Patent: WO 0159102-A 62 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US); Yale University (US)
Location/Qualifiers
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Pred. No. 9.3e+02;
3; Mismatches 0; Indels
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/db_xref="taxon:32630"
/note="Nucleic Acid"
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Pred. No. 9.3e+02;
3; Mismatches 0
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Sequence 62 from Patent WO0159102.
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/note="2'-0-Methyl"
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/note="2'-0-Methyl"
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                                                                               synthetic construct.
synthetic construct
artificial sequences.
1 (bases 1 to 28)
Breaker, R. and Emilsson, G.
Nucleozymes with endonuclease activity
Patent: WO 0159102-A 63 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US); rale University (US)
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Pred. No. 9.3e+02;
3; Mismatches 0; Indels
   linear
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/organism="synthetic construct"
/db_xref="taxon:32630"
/note="Nucleic Acid"
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 AX214250 28 bp
Sequence 63 from Patent WO0159102.
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7 AGATAACGTGAAGAT 21
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  ALIGNMENTS
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AAS12308
AAS123108
AAS12310
AAS12311
AAS12311
AAS12314
AAS12314
AAS12318
AAS12318
AAS12318
AAS12328
AAS12338
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AAS12337
AAS12404
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DNA encoding deoxyribozyme #7.
                                                                                                                                                                                                                                                                                                                                                                                                           AAS12347 standard; DNA; 15 BP
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WO200159102-A2.
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                                                             July 6, 2003, 14:25:15; search time 160.909 Seconds (without alignments) 209.932 Million cell updates/sec
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/ SIDS2/godata/geneseq_rembl.NAL1989.DAT:*
/ SIDS2/godata/geneseq_rembl.NAL1989.DAT:*
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/ SIDS2/godata/geneseq_remseq_rembl.NAL1992.DAT:*
/ SIDS2/godata/geneseq_remseq_rembl.NAL1992.DAT:*
/ SIDS2/godata/geneseq_remseq_rembl.NAL1995.DAT:*
/ SIDS2/godata/geneseq_rembl.NAL1995.DAT:*
/ SIDS2/godata/geneseq_remseq_rembl.NAL1995.DAT:*
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/SIDSZ/gcgdata/geneseq-embl/NA1981.DAT:*
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        GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd
                                                                                                                                                                                    Total number of hits satisfying chosen parameters:
                                                                                                                                                                   2185239 seqs, 1125999159 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SUMMARIES
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Maximum Match 100%
Listing first 45 summaries
                                            nucleic search, using sw model
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AAS12296
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WPI; 2001-536526/59.
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                                                     The invention relates to nucleic acid molecules with endonuclease activity, which are particularly useful for cleavage of RNA or DNA. The nucleic acids are used in a pharmaceutical composition and are used to modulate expression of a gene in a plant, mammalian, bacterial or fungal cell. They are used to cleave a separate nucleic acid, preferably RNA. The nucleic acids are used to inhibit gene expression and/or cell proliferation, and can be used to inhibit gene expression and/or cell proliferation, and can be used to treat a disease or condition. More than one nucleic acid can be independently targeted to the same or different sites in a cell. The nucleic acids may be used to study DNA. The modifications to the nucleic acids optimises their catalytic activity and can maintain or enhance their activity. They exhibit a high degree of specificity for RNA. The present sequence represents the coding
                                                                                                                                                                                                                                                                       Gaps
nucleozymes, for modulating gene expression in a plant, mammalian, bacterial or fungal cell
                                                                                                                                                                                                  sequence of deoxyribozyme #7 used in the method of the invention
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                                                                                                                                                                                                                                               Score 15; DB 22; Length 15; Pred. No. 71;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /mod_base= c
/note= "3',3'-inverted deoxyabasic moiety"
                                                                                                                                                                                                                                                                     0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /mod_base= OTHER
/note= "OTHER = 2'-O-methyl nucleotides"
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/note= "OTHER = 2'-O-methyl nucleotides"
                                                                                                                                                                                                                       Sequence 15 BP; 7 A; 1 C; 4 G; 3 U; 0 other;
                                                                                                                                                                                                                                                                       Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA encoding class V ribozyme #7.
                                   Claim 49; Page 77; 96pp; English.
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                                                                                                                                                                                                                                               100.0%;
100.0%;
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31-MAR-2000; 2000US-0193646.
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/*tag= a
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/*tag= b
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Best Local Similarity 100.0
Matches 15; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sequence of class V ribozyme #7 used in the method of the invention
such as ribozymes and
                             for modulating gene expression in a plant, mammalian,
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/mod_base= c
/note= "3',3'-inverted deoxyabasic moiety"
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New nucleic acids with endonuclease activity,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 27 BP; 11 A; 3 C; 9 G; 4 U; 0 other;
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                                                                                                          Example 1; Page 71; 96pp; English.
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/mod_base= OTHER
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20..27
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2000US-0193646.
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Best Local Similarity 100.
Matches 15; Conservative
                                                  bacterial or fungal cell
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31-MAR-2000;
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WO200159102-A2
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AAS12298
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                                                                                                            The invention relates to nucleic acid molecules with endonuclease activity, which are particularly useful for cleavage of RNA or DNA. The nucleic acids are used in a pharmaceutical composition and are used to modulate expression of a gene in a plant, mammalian, bacterial or fungal cell. They are used to cleave a separate nucleic acid, preferably RNA. The nucleic acids are used to inhibit gene expression and/or cell proliferation, and can be used to inhibit gene expression and/or cell than one nucleic acid and be independently targeted to the same or different sites in a cell. The nucleic acids may be used to study DNA. The modifications to the nucleic acids optimises their catalytic activity and can maintain or enhance their activity. They exhibit a high degree of specificity for RNA. The present sequence represents the coding sequence of class V ribozyme #8 used in the method of the invention.
                                                                                                                                                                                                                                                                                                          Gaps
                                                 New nucleic acids with endonuclease activity, such as ribozymes and nucleozymes, for modulating gene expression in a plant, mammalian, bacterial or fungal cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ribozyme; cytostatic; endonuclease; RNA cleavage; DNA cleavage; gene therapy; plant; fungus; bacteria; mammal; ss.
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/note= "3',3'-inverted deoxyabasic moiety"
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/mod_base= OTHER
/note= "OTHER = 2'-0-methyl nucleotides"
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                                                                                                                                                                                                                                                                                                        0;
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Pred. No. 74;
                                                                                                                                                                                                                                                            Sequence 27 BP; 11 A; 3 C; 9 G; 4 U; 0 other;
                                                                                                                                                                                                                                                                                                        Mismatches
          Emilsson G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
                                                                                         Example 1; Page 71; 96pp; English.
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/mod_base= OTHER
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Best Local Similarity 100.0%;
Matches 15; Conservative 0
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31-MAR-2000; 2000US-0193646.
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          Beigelman L,
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modified_base
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          Breaker R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                      AAS12297;
                                                                                                                                                                                                                                                                                                                                                                              RESULT 4
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The invention relates to nucleic acid molecules with endonuclease activity, which are particularly useful for cleavage of RNA or DNA. The nucleic acids are used in a pharmaceutical composition and are used to modulate expression of a gene in a plant, mammalian, bacterial or fungal cell. They are used to cleave a separate nucleic acid, preferably RNA. The nucleic acids are used to inhibit gene expression and/or cell proliferation, and can be used to inhibit gene expression and/or cell than one nucleic acid and be used to inhibit targeted to the same or different sites in a cell. The nucleic acids may be used to study DNA. The modifications to the nucleic acids optimises their catalytic activity and can maintain or enhance their activity. They exhibit a high degree of specificity for RNA. The present sequence represents the coding sequence of class V ribozyme #9 used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                               New nucleic acids with endonuclease activity, such as ribozymes and nucleozymes, for modulating gene expression in a plant, mammalian, bacterial or fungal cell
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/mod_base= c
/note= "3',3'-inverted deoxyabasic moiety"
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Pred. No. 74;
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                                                                                     Emilsson G;
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/mod_base= OTHER
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/mod_base= OTHER
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100.0%;
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(RIBO-) RIBOZYME PHARM INC. (UYYA ) UNIV YALE.
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Best Local Similarity 100.
Matches 15; Conservative
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activity, which are particularly useful for cleavage of RNA or DNA. The nucleic acids are used in a plant, mammalian, bacterial or fundulate expression of a gene in a plant, mammalian, bacterial or fungal cell. They are used to cleave a separate nucleic acid, preferably RNA. The nucleic acids are used to inhibit gene expression and/or cell proliferation, and can be used to treat a disease or condition. More than one nucleic acid can be used to treat a disease or condition. More than one nucleic acid can be independently targeted to the same or different sites in a cell. The nucleic acids may be used to study DNA. The modifications to the nucleic acids optimises their catalytic activity and can maintain or enhance their activity. They exhibit a high degree of specificity for RNA. The present sequence represents the coding sequence of class V ribozyme #11 used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                    New nucleic acids with endonuclease activity, such as ribozymes and nucleozymes, for modulating gene expression in a plant, mammalian,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to nucleic acid molecules with endonuclease
/note= "3',3'-inverted deoxyabasic moiety"
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11..27
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Pred. No. 74;
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/mod_base= OTHER
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31-MAR-2000; 2000US-0193646.
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                                                                                                                      08-FEB-2001; 2001WO-US04223
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(UYYA ) UNIV YALE.
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Best Local Similarity 100.
Matches 15; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                         nucleozymes, for modulati
bacterial or fungal cell
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                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to nucleic acid molecules with endonuclease activity, which are particularly useful for cleavage of RNA or DNA. The nucleic acids are used in a pharmaceutical composition and are used to modulate expression of a gene in a plant, mammalian, bacterial or fungal cell. They are used to cleave a separate nucleic acid preferably RNA. The nucleic acids are used to inhibit gene expression and/or cell proliferation, and can be used to treat a disease or condition. More than one nucleic acid can be independently targeted to the same or different sites in a cell. The nucleic acids may be used to study DNA. The modifications to the nucleic acids optimises their catalytic activity and can maintain or enhance their activity. They exhibit a high degree
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      of specificity for RNA. The present sequence represents the coding sequence of class V ribozyme #10 used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                      New nucleic acids with endonuclease activity, such as ribozymes and nucleozymes, for modulating gene expression in a plant, mammalian, bacterial or fungal cell
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*tag= b
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/mod_base= c
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                                                                                             08-FEB-2000; 2000US-0181360.
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modified_base
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AAS12299
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Length 27;

DNA cleavage;

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modified_base
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                                                                                                                                                                                                                                                                                   The invention relates to nucleic acid molecules with endonuclease activity, which are particularly useful for cleavage of RNA or DNA. The nucleic acids are used in a pharmaceutical composition and are used to modulate expression of a gene in a plant, mammalian, bacterial or fungal cell. They are used to cleave a separate nucleic acid, preferably RNA. The nucleic acids are used to inhibit gene expression and/or cell proliferation, and can be used to inhibit gene expression and/or cell proliferation, and can be used to interest a disease or condition. More than one nucleic acid can be independently targeted to the same or different sites in a cell. The nucleic acids may be used to study DNA. The modifications to the nucleic acids optimises their catalytic activity and can maintain or enhance their activity. They exhibit a high degree of specificity for RNA. The present sequence represents the coding sequence of class V ribozyme #12 used in the method of the invention.
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                                /note= "3',3'-inverted deoxyabasic moiety"
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/note= "OTHER = 2'-O-methyl nucleotides"
18
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                                                                                                                                                                                 Emilsson G;
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                       /mod_base= c
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2000US-0193646.
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Best Local Similarity 100.
Matches 15; Conservative
                                                                                                                                                                                Beigelman L,
                                                                                                                                                                                                   WPI; 2001-536526/59
                                                     WO200159102-A2
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                                                                        16-AUG-2001
                                                                                                                                                                               Breaker R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic.
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The invention relates to nucleic acid molecules with endonuclease activity, which are particularly useful for cleavage of RNA or DNA. The nucleic acids are used in a pharmaceutical composition and are used to modulate expression of a gene in a plant, mammalian, bacterial or fungal cell. They are used to cleave a separate nucleic acid, preferably RNA. The nucleic acids are used to inhibit gene expression and/or cell proliferation, and can be used to inhibit gene expression and/or cell proliferation, and can be used to treat a disease or condition. More than one nucleic acid can be independently targeted to the same or different sites in a cell. The nucleic acids may be used to study DNA. The modifications to the nucleic acids optimises their catalytic activity and can maintain or enhance their activity. They exhibit a high degree of specificity for RNA. The present sequence represents the coding sequence of class V ribozyme #13 used in the method of the invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New nucleic acids with endonuclease activity, such as ribozymes an nucleozymes, for modulating gene expression in a plant, mammalian, bacterial or fungal cell
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                                                                                                                                                                                                                                                                            /mod_base= c
/note= "3',3'-inverted deoxyabasic moiety"
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                                                                                                                                                                                      2'-0-methyl nucleotides'
                                                         = 2'-0-methyl nucleotide"
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Pred. No. 74;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 27 BP; 11 A; 3 C; 9 G; 4 U; 0 other;
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                                                                                                                                                   /mod_base= OTHER
/note= "OTHER = 27
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/*tag= b
/mod_base= a
/note= "OTHER =
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31-MAR-2000; 2000US-0193646.
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Matches 15; Conservative
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Ribozyme; cytostatic; endonuclease; RNA cleavage; DNA cleavage; gene therapy; plant; fungus; bacteria; mammal; ss.

DNA encoding class V ribozyme #15.

Location/Qualifiers

Key modified base

Synthetic.

'note= "OTHER = 2'-0-methyl nucleotides"

/mod\_base= OTHER

′\*tag≖ a

/mod\_base= a /note= "OTHER = 2'-0-methyl nucleotide"

/\*tag= b

modified\_base

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The invention relates to nucleic acid molecules with endonuclease activity, which are particularly useful for cleavage of RNA or DNA. The nucleic acids are used in a pharmaceutical composition and are used to modulate expression of a gene in a plant, mammalian, bacterial or fungal cell. They are used to cleave a separate nucleic acid, preferably RNA. The nucleic acids are used to inhibit gene expression and/or cell proliferation, and can be used to inhibit gene expression mod/or cell proliferation, and can be used to inhibit tanged to the same or than one nucleic acid can be independently targeted to the same or different sites in a cell. The nucleic acids optimises their catalytic activity and can maintain or enhance their activity. They exhibit a high degree of specificity for RNA. The present sequence represents the coding sequence of class V ribozyme #14 used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New nucleic acids with endonuclease activity, such as ribozymes and nucleozymes, for modulating gene expression in a plant, mammalian, bacterial or fungal cell
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                                                                                                                                                                                                                                                       /mod_base= c
/note= "3',3'-inverted deoxyabasic moiety"
                                                                               /note= "OTHER = 2'-0-methyl nucleotides'
                                                                                                                                                                                          /mod_base= OTHER
/note= "OTHER = 2'-O-methyl nucleotides"
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/note= "OTHER = 2'-O-methyl nucleotide"
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100.0%; Pred. No. 74;
Live 0; Mismatches 0;
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                Location/Qualifiers
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                                                              /mod_base= OTHER
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Best Local Similarity 100.0
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/mod\_base= c /note= "3',3'-inverted deoxyabasic moiety"

/\*tag= e

modified\_base

WO200159102-A2

16-AUG-2001

Beigelman L, Emilsson G;

Breaker R,

WPI; 2001-536526/59

08-FEB-2000; 2000US-0181360. 08-FEB-2001; 2001WO-US04223.

(RIBO-) RIBOZYME PHARM INC.

UYYA ) UNIV YALE.

/mod\_base= OTHER /note= "OTHER = 2'-O-methyl nucleotides"

/\*tag=

modified\_base

/mod\_base= g /note= "OTHER = 2'-0:methyl nucleotide"

/\*tag= c

modified\_base

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to nucleic acid molecules with endonuclease activity, which are particularly useful for cleavage of RNA or DNA. The nucleic acids are used in a pharmaceutical composition and are used to modulate expression of a gene in a plant, mammalian, bacterial or fungal cell. They are used to cleave a separate nucleic acid, preferably RNA. The nucleic acids are used to inhibit gene expression and/or cell profiferation, and can be used to inhibit gene expression and/or cell than one nucleic acid can be independently targeted to the same or different sites in a cell. The nucleic acids may be used to study DNA. The modifications to the nucleic acids optimises their catalytic activity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        and can maintain or enhance their activity. They exhibit a high degree of specificity for RNA. The present sequence represents the coding sequence of class V ribozyme #15 used in the method of the invention.
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100.0%; Pred. No. 74;
Live 0; Mismatches 0;
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Best Local Similarity
Matches 15; Conserv
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0; Indels

δŏ g AAS12303 standard; DNA; 27

RESULT 10 AAS12303 (first entry)

21-NOV-2001

AAS12303;

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1 AGAUAACGUGAAGAU 15

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Gaps

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Example 1; Page 71; 96pp; English.
                                                               DNA encoding class V ribozyme #16.
                               AAS12304 standard; DNA; 27 BP
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AGAUAACGUGAAGAU 21
                                                                                                                                                                                                                          (RIBO-) RIBOZYME PHARM INC.
                                                    (first entry)
                                                                                                                                                                                                                                           Beigelman L,
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bacterial or fungal cell
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                                                                                         Synthetic.
                                          AAS12304;
                     RESULT 11
                          AAS12304
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Query Match Best Local Similarity

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/\*tag=

/\*tag= c

/\*tag= a

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to modulate expression of a gene in a plant, mammalian, bacterial or fungal cell. They are used to cleave a separate nucleic acid, preferably RNA. The nucleic acids are used to inhibit gene expression and/or cell proliferation, and can be used to treat a disease or condition. More than one nucleic acid can be independently targeted to the same or different sites in a cell. The nucleic acids may be used to study DNA. The modifications to the nucleic acids optimises their catalytic activity and can maintain or enhance their activity. They exhibit a high degree
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/mod_base= c
/note= "3',3'-inverted deoxyabasic moiety"
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/note= "OTHER = 2'-O-methyl nucleotides"
  Indels
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  Mismatches
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                                                                                                                                                                                                                                                                                               DNA encoding class V ribozyme #17.
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"OTHER .
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                                                           7 AGAUAACGUGAAGAU
15; Conservative
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21..27
/*tag-
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Matches
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/note= "3',3'-inverted deoxyabasic moiety"
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/note= "OTHER = 2'-O-methyl nucleotides"
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Breaker R, Beigelman
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of specificity for RNA. The present sequence represents the coding sequence of class V ribozyme \pm 17 used in the method of the invention.
                                                                                 Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                for modulating gene expression in a plant, mammalian,
                                                                                                                                                                                                                                                                              endonuclease; RNA cleavage; DNA cleavage;
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0
                                                         Length 27;
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/note= "3',3'-inverted deoxyabasic moiety"
                                                                                Indels
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/mod_base= g
/note= "OTHER = 2'-0-methyl nucleotide"
21..27
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                                                                                                                                                                                                                                                                             Ribozyme; cytostatic; endonuclease; RNA cleavage; gene therapy; plant; fungus; bacteria; mammal; ss
                                                        Score 15; DB 22;
Pred. No. 74;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New nucleic acids with endonuclease activity,
                                 Sequence 27 BP; 11 A; 3 C; 9 G; 4 U; 0 other;
                                                                                Mismatches
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                                                                                                                                                                                                                                                      DNA encoding class V ribozyme #18
                                                                                                                                                                                                                                                                                                                                                                        /mod_base- OTHER
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/mod_base= OTHER
                                                        100.0%; Sc
100.0%; Pr
tive 0;
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                                                                                                                                                                                   AAS12306 standard; DNA; 27 BP
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                                                       Query Match 100.
Best Local Similarity 100.
Matches 15; Conservative
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                                                                                                                  bacterial or fungal cell
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fungal cell. They are used to cleave a separate nucleic acid, preferably RNA. The nucleic acids are used to inhibit gene expression and/or cell proliferation, and can be used to treat a disease or condition. More than one nucleic acid can be independently targeted to the same or different sites in a cell. The nucleic acids may be used to study DNA. The modifications to the nucleic acids optimises their catalytic activity and can maintain or enhance their activity. They exhibit a high degree of specificity for RNA. The present sequence represents the coding sequence of class V ribozyme #18 used in the method of the invention.
                                                                                                                                                                                                  Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                     RNA cleavage; DNA cleavage;
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                                                                                                                                                                   Length 27;
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/mod_base= c
/note= "3',3'-inverted deoxyabasic moiety"
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Pred. No. 74;
                                                                                                                                        Sequence 27 BP; 11 A; 3 C; 9 G; 4 U; 0 other;
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                                     The invention relates to nucleic acid molecules with endonuclease activity, which are particularly useful for cleavage of RNA or DNA. The nucleic acids are used in a pharmaceutical composition and are used to modulate expression of a gene in a plant, mammalian, bacterial or fungal cell. They are used to cleave a separate nucleic acid, preferably RNA. The nucleic acids are used to inhibit gene expression and/or cell proliferation, and can be used to inhibit gene expression and/or cell proliferation and can be used to inhibit targeted to the same or different sites in a cell. The nucleic acids may be used to study DNA. The modifications to the nucleic acids optimises their catalytic activity and can maintain or enhance their activity. They exhibit a high degree of specificity for RNA. The present sequence represents the coding sequence of class V ribozyme #19 used in the method of the invention.
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Pred. No. 74;
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             Example 1; Page 71; 96pp; English
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Matches 15; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                             of specificity for RNA. The present sequence represents the coding sequence of class V ribozyme #20 used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
New nucleic acids with endonuclease activity, such as ribozymes and nucleozymes, for modulating gene expression in a plant, mammalian, bacterial or fungal cell
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Matches 15; Conservative
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July 6, 2003, 14:26:51; search time 1007.73 Seconds (without alignments) 241.069 Million cell updates/sec
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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
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Maximum Match 100%
Listing first 45 summaries
                                                                  OM nucleic - nucleic search, using sw model
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Perfect score:
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Database : EST:\*

1: em\_estba:\*
2: em\_esthum:\*
3: em\_esthum:\*
4: em\_esthum:\*
5: em\_estru:\*
6: em\_estru:\*
7: em\_estru:\*
10: 9b\_est1:\*
10: 9b\_est1:\*
11: 9b\_htc:\*
12: 9b\_est1:\*
13: 9b\_est1:\*
14: 9b\_est2:\*
15: em\_estfun:\*
16: em\_estfun:\*
17: 9b\_gss:\*
18: em\_estfun:\*
17: 9b\_gss:\*
18: em\_gss\_hum:\*
17: 9b\_gss:\*
18: em\_gss\_hum:\*
22: em\_gss\_pln:\*
23: em\_gss\_hum:\*
24: em\_gss\_mam:\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

			Description		AZ994980 2M0280G07	RO625912 nh86f02 v	AL483187 T Prices	TOOM OF COUNTY	AZ345853 IMU080F14	AA947987 0058e02.s	AL760544 Arabidops
SUMMARIES			ID		AZ994980	B0625912	TA248D01P	400000	A4543833	AA947987	AL760544
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			ore Match Length DB II	1111111	29	59	22	c	70	37	37
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## ALIGNMENTS

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The library was constructed by Claire Murphy and Dr. James McCarter at Washington University, St. Louis. Nematodes were provided by Dr. Louis Gasbarree of the USDA, Beltsville, MD
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                                                                          (lgasbarr@anri.barc.usda.gov).
Putative full length read
The vector to vector length is
seq primer: SL1 primer.
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1 (bases 1 to 22)
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Matches 11; Conservative
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KEYWORDS
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                                                                                                                                                                                                                                                                                                                                                                                                   (http://www.fax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end repaired with T4 DNA polymerase and T4 polymerase act at ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (qi|q'132114 qiplaR129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli Xilo-Gold (Stratagene) cells and selected for ampicillin resistance."
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                                                                                                                                                                                                                                                                                                         /lab_host="E. coli strain XL10-Gold, Tl-resistant, F-"
hote="Vector: PWD42nv; Putified genomic DNA from M.
musculus C57BL/6J (female) was obtained from the Jackson
Laboratory Mouse DNA Resource
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Contact: McCarter JP
Fe Washington Univ. Nematode EST Project, 1999
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Fal: 314 286 1800
Fax: 314 286 1810
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                                                                                                                                                                                                 /db.xref="taxon:10090"
/clone="UUGC2M0280G07"
/clone_lib="Mouse 10kb plasmid UUGC2M library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 11.8; DB 17; Length 29; Pred. No. 1.2e+04; 3; Mismatches 2; Indels
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Plate: 0280 row: G column: 07
Seq primer: CACACAGGAAACAGCTATGACC
Class: plasmid ends
                                                                                                                                                       /organism="Mus musculus"
/strain="C57BL/6J"
                                                                            High quality sequence stop: 29.
                                                                                                       Location/Qualifiers
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                                                                                                                                                                                                                                                                                   /sex="Female"
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66.78;
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Matches. 10; Conservative
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/note="Vector: pCRIT-TOPO (Invitrogen); Site_I: ECORI; Site_2: ECORI; The library was constructed by Claire Murphy and Dr. James McCarter at Washington University, St. Louis. Oligo(dT)-Sil PCR based library. Ostertagia Stertagi L3 cDNA PCR products of size >400 nucleotides containing Sil on the 5' end and oligo(dT) on the 3' end were non-directionally cloned into pCRIT-TOPO(Invitrogen) following the Topo TA cloning protocol. Nematodes were provided by Dr. Louis Gasbarree of the USDA, Beltsville, MD (lgasbarr@anri.barc.usda.gov). Third stage exheathed larvae were collected from 14 day fecal-sphagnum moss cultures of Ostertagia eggs. The larvae were recovered by overnight passage on a Baermann apparatus, and then cleaned by passage through a 20 micron nylon mesh. The larvae were then subjected to a treatment with 1.25% changes of PBS and then pelleted and snap frozen in liquid nitrogen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GSS 13-DEC-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
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                                                                           /clone_lib="Ostertagia ostertagi L3 SL1 TOPO v2"
/dev_stage="third stage exsheathed larvae"
/lab_host="DH10B"
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Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;
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/organism="Ostertagia ostertagi"
/db_xref="taxon:6317"
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72.0%;
78.6%;
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Best Local 9
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AA947987
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KEYWORDS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        AZ345853 29-SEP-2000 1M0080F14R Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0080F14 R, DNA sequence.
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       ballers, varver.org -
Email: nelsayed@tigr.org -
Details of T. brucei sequencing at the Sanger Centre are available
at http://www.sanger.ac.uk/Projects/T_brucei/.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostoml;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 28)
Dunn,D., Aoyaqi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,M., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.
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/note="weetcr: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
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/strain="c57BL/60"
/db_xref="taxon:10090"
/clone="UUGC1M0080F14"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
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Pred. No. 3.8e+04;
Barrell, Oxford University Press, 1999).
                                                                                                                brucei"
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Insert Length: 10000 Std Error: 0.00
Plate: 0080 row: F column: 14
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Seq primer: CACACAGGAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 28.
Location/Qualifiers
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Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
                                                                                                          /organism⇔"Trypanosoma
/strain="TREU927"
                                                                                                                                                  /db_xref="taxon:5691"
/clone="248d01"
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AZ345853.1 GI:10425090
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64.3%;
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Fax: 801 585 7177
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84112, US
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Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: L. Jeffrey Medeiros, M.D., Michael R.
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: Stratagene, Inc.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWMy2 (gil4732114|gb]AR129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent B. coli XL10-Gold ($tratagene) cells and selected for amplicillin resistance.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Oligo dT. Pooled kidney tumors. 5' adaptor sequence: 5' GAATTCGGCACGAG 3' 3' adaptor sequence: 5' CTCGAGTTTTTTTTTTTTTTT 3' Average insert size: 1.0 kb."
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
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//lab_host="SOLR (kanamycin resistant)"
//note="Organ: kidney; Vector: Bluescript SR-; Site_1:
EcoRI; Site_2: XhoI; Cloned unidirectionally. Primer.
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Pred. No. 4.3e+04;
2; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Seq primer: -40m13 fwd. ET from Amersham
High quality sequence stop: 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  www-bio.llnī.gov/bbrp/image/image.html
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /clone_lib-"NCI_CGAP_Kid6"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /clone="IMAGE:1590554"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /db_xref="taxon:9606
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         Match 72.0%;
Local Similarity 71.4%;
les 10; Conservative
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Length 37;

Score 10.8; DB 9; Pred. No. 4.9e+04;

EST 30-JUN-1998

Matches

KEYWORDS SOURCE ORGANISM

REFERENCE AUTHORS

TITLE

AUTHORS TITLE

JOURNAL REFERENCE JOURNAL AUTHORS

REFERENCE

TITLE JOURNAL

COMMENT

FEATURES

ACCESSION VERSION

DEFINITION

LOCUS

RESULT 6 AL760544

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Double-stranded CDNA was ligated to ECO RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT/T3 vector. Library went through one round of normalization, and was constructed by Bento Soares and M. Fatima Bonaldo. "
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AZ482955 46 bp DNA linear GSS 05-OCT-2000 1M0308M13F Mouse 10kb plasmid UUGCIM library Mus musculus genomic clone UUGCIM0308M13 F, DNA sequence.
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Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.; Jalam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, M., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.
                         AI039249 40 bp mRNA linear EST 30-JUN-199 ox33a08.s1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1658102 3' similar to TR:000554 000554 P21-ARC. [1] ;, mRNA
                                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Chordata; Cranlata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 40)
                                                                                                                                                                                                                                                                                                                                                            NCI-CGAP http://www.ncbi.nlm.nih.gov/nciogap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                                                                                                Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-rémail.nih.gov
This clone is available royalty-free through LLNL; contact the
INAGE Consortium (info@image.llnl.gov) for further information.
Frace considered overall poor quality
Seq primer: -40ml3 fwd. ET from Amersham
High quality sequence stop: 1.
Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     72.0%; Score 10.8; DB 9; Length 40; 71.4%; Pred. No. 5.1e+04; Live 2; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1. .40
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="InMGE:1658102"
/clone_lib="Soares_total_fetus_Nb2HF8_9w"
/dev_stage="8-9 weeks"
/lab_bost="DH108"
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AI039249.1 GI:3278443
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17 AGATGACGTGATGA 4
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Best Local Similarity 71.4
Matches 10; Conservative
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VERSION
KEYWORDS
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AZ482955
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KEYWORDS
SOURCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                In the context of the GABI-Kat project. GABI'. Information on line parallely.

Sili, Y., Strizhov, N., Rosso, M. and Weisshaar, B.

Li, Y., Strizhov, N., Rosso, M. and Weisshaar, B.

Direct Submission

Submitted (17-JUN-2002) Weisshaar B., Max-Planck-Institut fuer

Zuechtungsforschung, Carl-von-Linne-Weg 10, Koeln, 50829, Germany

This sequence is recovered from the left border of the T-DNA. It indicates an insertion close to or within gene At1977800. The sequences are generated at the MPI for Plant Breeding Research in the context of the GABI-Kat project. GABI-Kat is part of the German Plant Genomics program designated 'GABI'. Information on line availability can be found at:

Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /clone_lbe_Arabidopsis thaliana T-DNA insertion lines"
/note="PCR was performed on DNA from Arabidopsis thaliana
plants (T1) which were transformed with the T-DNA from
vector pAcifo. The lines contain one or more T-DNA
insertions. The DNA fragment(s) resulting from the PCR
were directly sequenced to determine the genomic sequence
flanking the insertion. Sequences displaying significant
similarity to the A. thalaina nuclear genome sequence
processed for submission. T-DNA derived sequences were
                                                                                                                                                                                                                                             AL760544 37 bp DNA linear GSS 19-JUN-2002
Arabidopsis thaliana T-DNA flanking sequence GK-199B11-014765,
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                                                                                                                                                                                                                                                                                                                                                                                                          thale cress.
Arabidopsis thaliana
Eukaryota, Viridiplantae, Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Rosidae; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Rosso,M., Strizhov,N., Li,Y., Reiss,B., Dekker,K. and Weisshaar,B. A new Arabidopsis thaliana T-DNA mutagenised population (GABI-Kat) for flanking sequence tag based reverse genetics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Strizhov, N., Li, Y., Rosso, M., Viehoever, P., Dekker, K., Saedler, H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
  Gaps
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Pred. No. 4.9e+04;
1; Mismatches 2; Indels (
Indels
2,

    .37
    /organism="Arabidopsis thaliana"

Mismatches
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/db_xref="taxon:3702"
/clone="GK-199B11-014765"
;
                                                                                                                                                                                                                                                                                                   genomic_survey sequence.
AL760544
AL760544.1 GI:21499415
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78.6%;
                                                                             17 AGATAATGAGAAGA 30
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11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            and Weisshaar, B.
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Gaps

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BASE COUNT

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Matches

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S. 2030 E., SLC,

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(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gil4732114) iplART29072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
                                                                                                                                                                                                                                                                                                                                                                                                                         /strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="tutocim0531D23"
/clone_lib="mouse 10kb plasmid UUGCIM library"
/sex="Male"
                                                                                                  308, Biomedical Polymers Research Bldg., 20
12, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 10.8; DB 17;
Pred. No. 5.6e+04;
2; Mismatches 2;
                                                                                                                                                                                                          Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
                                                                                                                                                                                                                                                        Plate: 0531 row: D column: 23
Seq primer: CACACAGGAAACAGCTATGACC
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                            /organism="Mus musculus"
                               Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
                                                                                                                                                                                                                                                                                                                                      High quality sequence stop: 48.
                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
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71.4%;
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Best Local Similarity 71.49
Matches 10, Conservative
       Unpublished (2000)
                                                                                                                                                      Tel: 801 585 5606
Fax: 801 585 7177
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AUTHORS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymuclectide kinase. Adaptor oligonuclectides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gil4732114 gplaFL29072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into
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Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly
M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.
and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
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                    Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Blomedical Polymers Research Bldg., 20 S. 2030 E., SLC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /lab_host="E. Coli strain XLIO-Gold, Tl-resistant, F-"/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /clone_lib="Mouse 10kb plasmid UUGC1M library"
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Pred. No. 5.4e+04;
L; Mismatches 2; Indels
                                                                                                                                                                                             Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0308 row: M column: 13
Seq primer: GGTGTAAAAGGACGGCCAGT
Class: plasmid ends
High quality sequence stop: 46.
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                                                                                                                                                                                                                                                                                                                                                                                                          /organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                        /db_xref="taxon:10090"
/clone="UUGC1M0308M13"
                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                   /strain="C57BL/6J
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78.6%;
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Unpublished (2000)
                                                                                                                                                 Tel: 801 585 5606
Fax: 801 585 7177
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GSS 16-FEB-2001
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 48)
Parher.M., Beacorn, T., Duval, B., Hamil, C.,
AZ772291 48 bp DNA linear GSS 16-FEB-20C 1M0583L06F Mouse 10kb plasmid UGGIM library Mus musculus genomic clone UGGLM0583L06 F, DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.
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0; Gaps

Length 48; Indels

JOURNAL

COMMENT

source

FEATURES

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Lunaryota; Viridiplantae; Štreptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooideae; Triticeae; Hordeum.
                                                                           Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: ysuzuki@ins.u-tokyo.ac.jp
Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
A.S. Construction and characterization of a full length-enriched and
a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                              /clone_lib="Sugano Homo sapiens cDNA library"
/note="Differential display comparison of untreated and
dimethyliumarate treated U937 cells"
12 c 9 g 12 t
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Contact: Kazuhiro Sato
Contact: Kazuhiro Sato
Contact: Institute for Bioresources
Gesearch Institute for Bioresources
Okayama University, Barley Germplasm Center
Chuo 2-20-1, Kurashiki, Okayama 710-0046, Japan
Email: kazsatofrib.okayama-u.ac.jp,
URL:http://www.rib.okayama-u.ac.jp,
Sato,K., Saisho,D., Takeda,K., Shini,T. and Kohara,Y. Direct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         database:http://www.shigen.nig.ac.jp/barley/Barley.html.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              72.0%; Score 10.8; DB 9; Length 50; 71.4%; Pred. No. 5.7e+04; Live 2; Mismatches 2; Indels
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/cultivar="Haruna Nijo"
/db_xref="taxon:112509"
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/organism="Homo sapiens"
/db_xref="taxon:9606"
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14 c 18 g
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Hordeum vulgare subsp. vulgare
Eukaryota; Viridiplantae; Strept
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                           Contact: Yutaka Suzuki
                                                       Department of Virology
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46 GAGAATGTGAAGAT 33
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orlifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pwac2 (gilly1732114(gblA712972.1), a copy number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XLLO-Gold (Stratagene) cells and selected for ampicillin resistance."
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AU103231
AU103231.1 GI:13552752
EST.
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1 (bases 1 to 50)

2 (bases 1 to 50)

3 (bases 1 to 50)

4 (bases 1 to 50)

4 (bases 1 to 50)

4 (bases 1 to 50)

5 (bases 1 to 50)

6 (bases 1 to 50)

7 (bases 1 to 50)

8 (bases 1 to 50)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          /strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0583L06"
/clone_llb="Mouse 10kb plasmid UUGC1M library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 48;
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                                                                                                       Rm. 308, Biomedical Polymers Research Bldg., 20
84112, USA
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                                                                                                                                                       Tel: 801 585 5606
Fax: 801 585 7177
Insert Length: 10000 Std Error: 0.00
Plate: 0583 row: L column: 06
Seq primer: GGTGTAAAAGGAGGCCAGT
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                   /organism="Mus musculus"
                   Contact: Robert B. Welss
University of Utah Genome Center
University of Utah
                                                                                                                                                                                                                                                                                                                                                     High quality sequence stop: 48. Location/Qualifiers
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Best Local Similarity 71.4
Matches 10; Conservative
Unpublished (2000)
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RESULT 11 AU103231/c LOCUS

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BASE COUNT ORIGIN

DEFINITION

ACCESSION VERSION KEYWORDS SOURCE

ORGANISM

REFERENCE AUTHORS JOURNAL

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Gaps

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Gaps

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Total (bases 1 to 52)

Torrez-Jerez, I., Scott, A.D., Harris, A.R., Gonzales, R.A., Bell, C.J., Flores, H.R., Inman, J.T., Weller, J.W. and May, G.D.

Expressed Sequence Tags from the Samuel Roberts Noble Foundation Medicago truncatula drought library
                                      Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Rosidae; eurosids I; Fabales; Fabaceae; Papilionoideae; Trifolieae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Craniata; Vertebrata; Euteleostomi;
Sciurognathi; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /note="Vector: Lambda Zap; Contains a mixture of entire
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AU257573 3'-directed mouse cDNA library Mus musculus cDNA clone BED0010931 3', mRNA sequence.
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Eukaryots; Metazoa; Chordata; Craniata; Vertebrata; Eutele
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae, Murin

I. (bases 1 to 53)

Kato, K. and Matoba, R.

Generation of expressed sequence tags from mouse brain

Generation of expressed sequence tags from mouse brain

Contact: Kikuya Kato

Graduate School of Biological Sciences

Nara Institute of Science and Technology

8916-5 Takayama, Ikoma, Nara 630-0101, Japan

Tel: 81-743-72-5589

Email: kkato6bs.aist-nara.ac.jp,

URL:http://love2.aist-nara.ac.jp,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
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Pred. No. 5.8e+04;
2; Mismatches 2;
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                                                                                                                                                                                                                                                                                                                                                          Email: gdmay@noble.org
Insert Length: 52 Std Error: 0.00
Plate: 016 row: H column: 07
Seq primer: TCACACAGGAAACAGCTATGAC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /tissue_type="Plantlets"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /organism="Medicago to
/db_xref="taxon:3880"
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Best Local Similarity 71.4%;
Matches 10; Conservative
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                        Medicago truncatula
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                                                                                                                                                                                                                                                                                                                                                      1 (bases 1 to 52)
Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T.,
Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,
Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B.,
Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BF631905 52 bp mRNA linear EST 19-DEC-2000 NF016H07DT1F1061 Drought Medicago truncatula cDNA clone NF016H07DT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AA823664 linear EST 17-FEB-1996 vr69d09.s1 Knowles Solter mouse 2 cell Mus musculus cDNA clone IMAGE:1125905 5' similar to gb:J03161 SERUM RESPONSE FACTOR (HUMAN
                                                                                                                                                                                                                                                                                                                                        Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                 Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This clone is available royalty-free through LLNL ; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Unpublished (1996)
Contact: Marra MyNduse EST Project
WashU-HHMI Mouse EST Project
WashIngton University School of MedicineP
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
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/tissue_type="embryo"
/dev_stage="2-cell"
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Pred. No. 5.8e+04;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /strain="C57BL/6J x DBA/2J F1"
/db_xref="taxon:10090"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Email: mouseest@watson.wustl.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The WashU-HHMI Mouse EST Project
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /clone="IMAGE:1125905"
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/clone="BED0010931"
/clone_lib="3'-directed mouse cDNA library"
/tissue_type="brain"
/note="Vector: pGEM-T-easy"
11 a 8 c 20 g 14 t
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BASE COUNT ORIGIN

Query Match

72.0%; Score 10.8; DB 9; Length 53;
Best Local Similarity 64.3%; Pred. No. 5.8e+04;
Matches 9; Conservative 3; Mismatches 2; Indels

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2 GAUAACGUGAAGAU 15 ||:|| |:| |||: 27 GATAAGGTGCAGAT 40

φ g Search completed: July 6, 2003, 15:28:26 Job time: 1011.73 secs

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6, 2003, 15:04:31; Search time 85 Seconds
(without alignments)
275.469 Million cell updates/sec
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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                   1085931 segs, 780495707 residues
                                                                                              OM nucleic - nucleic search, using sw model
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                                                                                                                                                                                                                                                                                                                                                       IDENTITY_NUC Gapop 10.0 , Gapext 1.0
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15
1 agauaacgugaagau 15
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Maximum Match 1008
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Perfect score:
Sequence:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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## SUMMARIES

Description	Sequence 97. Appl	3.	1	-	7	Sequence 4, Appli	5,	9	7	8	6	10,	Sequence 11, Appl	Sequence 12, Appl		14,	Sequence 15, Appl	16,	17,
QI	US-09-780-929-97	US-09-780-929-3	US-09-780-929-126	US-09-780-929-1	US-09-780-929-2	US-09-780-929-4	US-09-780-929-5	US-09-780-929-6	US-09-780-929-7	US-09-780-929-8	US-09-780-929-9	US-09-780-929-10	US-09-780-929-11	US-09-780-929-12	US-09-780-929-13	US-09-780-929-14	US-09-780-929-15	US-09-780-929-16	US-09-780-929-17
h DB	5 10	10 10	7 10	10	18 10	10	10	10	10	10	10	8 10	8 10	10	8 10	10	38 10	10 10	8 10
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Sequence 18, Appl Sequence 20, Appl Sequence 21, Appl Sequence 21, Appl Sequence 22, Appl Sequence 24, Appl Sequence 24, Appl Sequence 27, Appl Sequence 27, Appl Sequence 28, Appl Sequence 30, Appl Sequence 31, Appl Sequence 41, Appl Sequence 42, Appl Sequence 42, Appl Sequence 43, Appl Sequence 43, Appl Sequence 41, Appl Sequence 42, Appl Sequence 42, Appl Sequence 43, Appl Sequence 44, Appl Appl Sequence 44, Appl Appl Appl Appl Appl Appl Appl App		with Endonuclease Activity al Sequence: Enzymatic Nucleic Acid	0; Length 15; 0; Indels 0; Gaps 0;		Endonuclease Activity
0 US-09-780-929-18 0 US-09-780-929-19 0 US-09-780-929-20 0 US-09-780-929-22 0 US-09-780-929-23 0 US-09-780-929-24 0 US-09-780-929-26 0 US-09-780-929-26 0 US-09-780-929-26 0 US-09-780-929-29 0 US-09-780-929-29 0 US-09-780-929-39 0 US-09-780-929-39 0 US-09-780-929-39 0 US-09-780-929-38 0 US-09-780-929-38	ALIGNMENTS	Inc alysts 1) 0,929 360 rtifici	Score 15; DB 1; Pred. No. 87; 0; Mismatches	מ א	780929 uticals, Inc Acid Catalysts with Endonuclease
78	,		100.0% Similarity 100.0% S; Conservative	AGAUAACGUGAAGAU 1 	US-09-780-929-3 US-09-780-929-3, Application US/09780929; Sequence 3, Application US/09780929; Patent No. US20020151693A1 ; GENERAL INFORMATION: APPLICANT: Ribozyme Pharmaceuticals; APPLICANT: Breaker, Ronald; APPLICANT: Beigelman, Leo; TITLE OF INVENTION: Nucleic Acid Ca
20 21 22 22 23 24 24 24 31 32 33 33 34 44 45 45 45 45 45 45 45 45 45 45 45 45		RESULT 1 US-09-780-929-97 Sequence 97, Application U Patent No. US20020151693A1 GENERAL INFORMATION: APPLICANT: Breaker, Rone; APPLICANT: Breaker, Rone; APPLICANT: Breaker, Rone; ITLE OF INVENTION: NUCLE; CURRENT APPLICATION NUCHE; PRIOR FILING DATE: 2000-( NUMBER OF SEQ ID NOS: 126; SEQ ID NO 97 LENGTH: 15 TYPE: RNA ORGANISM: ATTIFICIAL SEC FEATURE: CHARLENTER INFORMATION: DESCIUS-109-780-929-97	Query Match Best Local Si Matches 15;	Oy 1 A	RESULT 2 US-09-780-929-3 ; Sequence 3, A ; Patent No. US ; GENERAL INFOR ; APPLICANT: ; APPLICANT: ; APPLICANT: ; TITLE OF INV

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OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid NAME/REY: misc._feature LOCATION: (1)...(6) OTHER INFORMATION: 2'-O-Methyl
                                                                                                                                                                                                                                                                                             NAME/KEY: misc_feature

LOCATION: (21)..(27)

OTHER INFORMATION: 2'-O-Methyl

NAME/KEY: misc_feature

LOCATION: (28)..(28)

OTHER INFORMATION: n stands for inverted deoxyabasic derivative
US-09-780-929-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 15; DB 10;
Pred. No. 91;
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Pred. No.
                                      PRIOR APPLICATION NUMBER: US 60/181,360
PRIOR FILING DATE: 2000-02-08
NUMBER OF SEQ ID NOS: 126
SOFTWARE: Patentin version 3.0
SEQ ID NO 1
LENGTH: 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 2, Application US/09780929 Patent No. US20020151693A1
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LOCATION: (1)..(5)
OTHER INFORMATION: 2'-0-Methyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQ ID NOS: 126
SOFTWARE: PatentIn version 3.0
SEQ ID NO 2
LENGTH: 28
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ORGANISM: Artificial Sequence
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Best Local Similarity 100.
Matches 15, Conservative
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Best Local Similarity 100.
Matches 15; Conservative
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                                                                                                                                                                 TYPE: RNA
                                                                                                                                                                                                       FEATURE:
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APPLICANT: Breaker, Ronald
APPLICANT: Beigelman, Leo
TITLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity
FILE REFERENCE: MBHB00-884-H (500/001)
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CURRENT APPLICATION NUMBER: US/09/780,929
CURRENT FILING DATE: 2001-02-08
NUMBER OF SEQ ID NOS: 126
SOFWMARE: Patentin version 3.0
SEQ ID NO 126
LENGTH: 27
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Pred. No. 90;
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Pred. No. 90;
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FILE REFERENCE: MBHB00-884-H (500/001)
CURRENT APPLICATION NUMBER: US,09/780,929
CURRENY FILING DATE: 2001-02-08
PRIOR APPLICATION NUMBER: US 60/181,360
PRIOR FILING DATE: 2000-02-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Ribozyme Pharmaceuticals, Inc
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Patent No. US20020151693A1
GENERAL INFORMATION:
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Patent No. US20020151693A1
GENERAL INFORMATION:
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LOCATION: (21)..(27)
CTHER INFORMATION: 2'-0-Methyl
US-09-780-929-126
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OTHER INFORMATION: 2'-O-Methyl
                                                                                                 NUMBER OF SEQ ID NOS: 126
SOFWARE: Patentin version 3.0
SEQ ID NO 3
ENGTH: 27
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Best Local Similarity 100.

Matches 15; Conservative
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Best Local Similarity
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                                                                                                                                                                                   TYPE: RNA
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OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid
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APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Breaker, Ronald
APPLICANT: Breaker, Ronald
APPLICANT: Beigelman, Leo
TITLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity
FILE REFERENCE: MBHB00-884-H (500/001)
CURRENT APPLICATION NUMBRR: US/09/780,929
CURRENT FILING DATE: 2001-02-08
PRIOR APPLICATION NUMBRR: US 60/181,360
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LOCATION: (21)..(27)

COTHER INFORMATION: 2'-0-Methyl

NAME/KEY: misc_feature

LOCATION: (28)..(28)

OTHER INFORMATION: n stands for inverted deoxyabasic derivative

US-09-780-929-2
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RESULT 8
US-09-780-929-6
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           Query Match
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                                                     DEPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Breaker, Ronald
APPLICANT: Beigelman, Leo
TITLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity
FILE REFERENCE: MBHB00-884-H (500/001)
CURRENT APPLICATION NUMBER: US/09/780,929
CURRENT FILING DATE: 2001-02-08
NUMBER OF SEQ ID NOS: 126
SOFTWARE: Patentin version 3.0
SEQ ID NO 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-780-929-5
; Sequence 5, Application US/09780929
; Sequence 5, Application US/09780929
; Sequence 5, Application US/09780929
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc
; APPLICANT: Beigelman, Leo
; TITLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity
FILE REFERENCE: MBHB00-884-H (500/001)
; CURRENT FILING DATE: 2001-02-08
; PRIOR APPLICATION NUMBER: US 60/181,360
; PRIOR PELING DATE: 2000-02-08
; PRIOR FILING DATE: 2000-02-08
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THER INFORMATION: n stands for inverted deoxyabasic derivative
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Pred. No.
Sequence 4, Application US/09780929
Patent No. US20020151693Al
GENERAL INFORMATION:
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1 Similarity 100.0%; P
15; Conservative 0;
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OTHER INFORMATION: 2'-0-Methyl
MAME/KET: misc_feature
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OTHER INFORMATION: 2'-0-Methyl
NAME/KEY: misc_feature
LOCATION: (28)...(28)
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OTHER INFORMATION: 2'-0-Methyl
NAME/KEY: misc_feature
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OTHER INFORMATION: 2'-0-Methyl
NAME/KEY: misc_feature
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SOFTWARE: PatentIn version 3.0
SEQ ID NO 5
LENGTH: 28
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Best Local Similarity
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OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid
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GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Beraker, Ronald
APPLICANT: Beraker, Ronald
APPLICANT: Bergelman, Leo
TITLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity
FILE REPRENEUR: MHHBBO-884 + 1(500/001)
CURRENT APPLICATION NUMBER: US/09/780,929
CURRENT FILING DATE: 2001-02-08
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Patent No. US20020151693A1
GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Breaker, Ronald
APPLICANT: Beigelman, Leo
TITLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity
FILE REFERENCE: MBHB00-884-H (500/001)
CURRENT APPLICATION NUMBER: US/09/780,929
CURRENT FILING DATE: 2001-02-08
PRIOR FILING DATE: 2000-02-08
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; OTHER INFORMATION: n stands for inverted deoxyabasic derivative US-09-780-929-5
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Pred. No. 91;
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Pred. No. 91;
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LOCATION: (1)..(4)
OTHER INFORMATION: 2'-O-Methyl
NAME/KEY: misc_feature
LOCATION: (24)..(27)
OTHER INFORMATION: 2'-O-Methyl
NAME/KEY: misc_feature
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100.0%;
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SOFWARE: Patentin version 3.0
SEQ ID NO 6
EBNCTH: 28
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Best Local Similarity 100.0
Matches 15; Conservative
                                                                                         Best Local Similarity 100.
Matches 15; Conservative
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TITLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity FILE REFERENCE: MBHB00-884-H (500/001)
CURRENT APPLICATION NUMBER: U5/09/780,929
CURRENT FILING DATE: 2001-02-08
PRIOR APPLICATION NUMBER: U5 60/181,360
PRIOR FILING DATE: 2000-02-08
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Pred. No. 5
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Pred, No.
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OTHER INFORMATION: 2'-0-Methyl
NAME/KEY: misc_feature
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Conservative 0
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OTHER INFORMATION: 2'-0-Methyl
NAME/KEY: misc_feature
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OTHER INFORMATION: 2'-0-Methyl
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OTHER INFORMATION: 2'-0-Methyl
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SOFWARE: Patentin version 3.0
SEQ ID NO 10
LENGTH: 28
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SOFTWARE: Patentin version 3.0
SEQ ID NO 9
LENGTH: 28
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Best Local Similarity 100.
Matches 15; Conservative
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                                      NAME/KEY: misc_feature
COTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid
NAME/KEY: misc_feature
COTHER INFORMATION: 2'-O-Methyl
NAME/KEY: misc_feature
COTHER INFORMATION: 2'-O-Methyl
NAME/KEY: misc_feature
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COTHER INFORMATION: 2'-O-Methyl
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COTHER INFORMATION: 2'-O-Methyl
NAME/KEY: misc_feature
COTHER INFORMATION: 0'28)
COTHER INFORMATION: 0 stands for inverted deoxyabasic derivative
US-09-780-928-7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Breaker, Ronald
APPLICANT: Beigelman, Leo
TITLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity
FILE REFERENCE: MBHB00-84-H (500/001)
CURRENT APPLICATION NUMBER: US/09/780,929
CURRENT FILING DATE: 2001-02-08
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OTHER INFORMATION: n stands for inverted deoxyabasic derivative
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                                                                                                                                                                                                                                                                                                           Score 15; DB 10; Length 28;
Pred. No. 91;
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Pred. No.
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APPLICANT: Ribozyme Pharmaceuticals, Inc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: US 60/181,360 PRIOR FILING DATE: 2000-02-08 NUMBER OF SEQ ID NOS: 126 SOFTWARE: Patentin version 3.0
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Patent No. US20020151693A1
GENERAL INFORMATION:
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LOCATION: (1)..(6)
OTHER INFORMATION: 2'-0-Methyl
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LOCATION: (20)..(27)
OTHER INFORMATION: 2'-0-Methyl
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Best Local Similarity 100.0%;
Matches 15; Conservative 0
ORGANISM: Artificial Sequence
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Best Local Similarity 100.0
Matches 15; Conservative
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Beigelman, Leo
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US-09-780-929-9
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LENGTH: 28
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APPLICANT:
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OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid NAME/KEY: misc_feature
LOCATION: (1)..(7)
OTHER INFORMATION: 2'-0-Methyl
OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid
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APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Breaker, Ronald
APPLICANT: Beigelman, Leo
TITLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity
FILE REFERENCE: MBHB00-884-H (500/001)
CURRENT APPLICATION NUMBER: US/09/780,929
CURRENT FILING DATE: 2001-02-08
PRIOR FILING DATE: 2000-02-08
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Best Local Similarity
Matches 15; Conserv
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Best Local Similarity 100.
Matches 15; Conservative
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Job time: 85 secs
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US-09-780-929-13
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OTHER INFORMATION: 2'-0-Methyl
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                                                                                                                                                                                                                                                          Sequence 11, Application US/09780929
Patent No. US20020151693A1
GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Breaker, Ronald
APPLICANT: Beigelman, Leo
TITLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity
FILE REFERENCE: MBHB00-884-H (500/001)
CURRENT APPLICATION NUMBER: US/09/780,929
CURRENT FILING DATE: 2001-02-08
PRIOR APPLICATION NUMBER: US 60/181,360
PRIOR APPLICATION NUMBER: US 60/181,360
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Patent No. US20020151693A1
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT:
Breaker, Ronald
APPLICANT:
Beigelman, Leo
TITLE OF INVENTION:
VUCLEIC ACId Catalysts with Endonuclease Activity
FILE REPERENCE:
MBHB00-884-H (500/001)
CURRENT FILING DATE:
CURRENT FILING DATE:
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CURRENT FILING DATE:
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CHER INFORMATION: n stands for inverted deoxyabasic derivative

US-09-780-929-11
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PRIOR FILING DATE: 2000-02-08
NUMBER OF SEQ ID NOS: 126
SOFTWARE: PatentIn version 3.0
SEQ ID NO 12
LENGTH: 28
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OTHER INFORMATION: 2'-0-Methyl
NAME/KEY: mlsc_feature
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LOCATION: (1)..(6)
OTHER INFORMATION: 2'-0-Methyl
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SOFTWARE: Patentin version 3.0
SEQ ID NO 11
LENGTH: 28
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ORGANISM: Artificial Sequence
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ORGANISM: Artificial Sequence
                                        7 AGAUAACGUGAAGAU 21
    1 AGAUAACGUGAAGAU 15
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Best Local Similarity 100.0
Matches 15; Conservative
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LOCATION: (21)..(27)
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US-09-780-929-11
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Enzymatic Nucleic Acid
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Patent No. US20020151693a1
GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Belgelman, Leo
TILLE OF INVENTION: NORBER: US/09/780,929
CURRENT APPLICATION NUMBER: US/09/780,929
CURRENT APPLICATION NUMBER: US 60/181,360
PRIOR PLICATION NUMBER: US 60/181,360
PRIOR PLICATION NUMBER: US 60/181,360
SPIOR FILING DATE: 2000-02-08
NUMBER OF SEQ ID NOS: 126
SOFTWARE: PatentIn version 3.0
SEQ ID NO 13
LENGTH: 28
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LCCATION: (18)...(18)
OTHER INFORMATION: 2'-O-Methyl
NAME/KEY: misc_feature
LCCATION: (21)...(27)
OTHER INFORMATION: 2'-O-Methyl
NAME/KEY: misc_feature
LCCATION: (28)...(28)
OTHER INFORMATION: n stands for inverted deoxyabasic derivative
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NAME/KET: misc_feature
LOCATION: (1). (6)
OTHER INFORMATION: 2'-0-Methyl
NAME/KET: misc_feature
LOCATION: (1). (7). (1). (7).
OTHER INFORMATION: 2'-0-Methyl
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Best Local Similarity 100.0%;

Matches 15; Conservative 0,
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OTHER INFORMATION: 2'-0-Methyl
NAME/KEY: mlsc_feature
LOCATION: (28)..(28)
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ORGANISM: Artificial Sequence
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1: \cgn2_6/ptodata/1/pna/PCTUS_COMB.seq:*

2: \cgn2_6/ptodata/1/pna/VGS0_COMB.seq:*

3: \cgn2_6/ptodata/1/pna/US01_COMB.seq:*

4: \cgn2_6/ptodata/1/pna/US081_COMB.seq:*

5: \cgn2_6/ptodata/1/pna/US081_COMB.seq:*

6: \cgn2_6/ptodata/1/pna/US081_COMB.seq:*

7: \cgn2_6/ptodata/1/pna/US081_COMB.seq:*

9: \cgn2_6/ptodata/1/pna/US081_COMB.seq:*

10: \cgn2_6/ptodata/1/pna/US085_COMB.seq:*

11: \cgn2_6/ptodata/1/pna/US086_COMB.seq:*

12: \cgn2_6/ptodata/1/pna/US086_COMB.seq:*

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/ cgn2_6/ptodata/1/pna/US092_COMB.seq:*
/ cgn2_6/ptodata/1/pna/US092_COMB.seq:*
/ cgn2_6/ptodata/1/pna/US093_COMB.seq:*
/ cgn2_6/ptodata/1/pna/US093_COMB.seq:*
/ cgn2_6/ptodata/1/pna/US095_COMB.seq:*
/ cgn2_6/ptodata/1/pna/US095B_COMB.seq:*
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6/ptodata/1/pna/US095C_COMB.seq:*
6/ptodata/1/pna/US096A_COMB.seq:*
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ptodata/1/pna/US097C_COMB.seq:
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Copyright (c) 1993 - 2003 Compugen Ltd.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24791104 seqs, 12571243825 residues
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Maximum Match 100%
Listing first 45 summaries
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/cgn2_6/ptodata/1/pna/US6009_COMB.seq:
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/cgn2_6/ptodata/1/pna/US6011_COMB.seq:
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ptodata/1/pna/US6022_COMB.seq:*
ptodata/1/pna/US6023_COMB.seq:*
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ptodata/1/pna/US6030_COMB.seq:*
ptodata/1/pna/US6031_COMB.seq:*
.6/ptodata/1/pna/US6002_COMB.seq:*
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/cgn2_6/ptodata/1/pna/US6008_COMB.seq:
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/cgn2_
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Description	Sequence 97, Appl Sequence 3, Appli	Sequence 126, App Sequence 1, Appli	Sequence 2, Appli Sequence 4, Appli	י ע	sequence o, Appli Sequence 7, Appli	Sequence 8, Appli	9, Ag	Sequence 10, Appl Sequence 11, Appl	Sequence 12, Appl	Sequence 13, Appl	Sequence 14, Appl	Sequence 15, Appl	Sequence 16, Appl	Sequence 17, Appl	Sequence 18, Appl	Sequence 19, Appl
SUMMARIES	US-09-780-929-97 US-09-780-929-3	US-09-780-929-126 US-09-780-929-1	US-09-780-929-2 US-09-780-929-4	US-09-780-929-5	US-09-780-929-6 US-09-780-929-7	US-09-780-929-8	US-09-780-929-9	US-09-780-929-10 US-09-780-929-11	US-09-780-929-12	US-09-780-929-13	US-09-780-929-14	US-09-780-929-15	US-09-780-929-16	US-09-780-929-17	US-09-780-929-18	US-09-780-929-19
DB	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
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Score	15 15	15 15	15 15	15	15	15	15	15 15	15	15	15	15	15	15	15	15
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ptodata/1/pna/US099C\_COMB.

/cgn2\_6/ptodata/1/pna/US102B\_COMB.

Gaps

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Indels

Length 27;

100.0%; Score 15; DB 30; 100.0%; Pred. No. 4.2e+02; Mismatches

0

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; OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid US-09-780-929-3
           NUMBER OF SEQ ID NOS: 126
SOFTWARE: PatentIn version 3.0
SEQ ID NO 3
                                                                   TYPE: RNA ORGANISM: Artificial Sequence
PRIOR FILING DATE: 2000-02-08
                                                                                                                                                                                                          1 AGAUAACGUGAAGAU 15
                                                                                                                                                                              Conservative
                                                                                                                                                   Query Match
Best Local Similarity
Matches 15; Conserv
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US-09-780-929-1
                                                     LENGTH: 27
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APPLICANT: Breaker, Ronald
APPLICANT: Breaker, Ronald
APPLICANT: Beigelman, Leo
TITLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity
FILE REFERENCE: MBHB00-884 H (500/001)
CURRENT APPLICATION NUMBER: US/09/780,929
CURRENT APPLICATION NUMBER: US 60/181,360
PRIOR APPLICATION NUMBER: US 60/181,360
PRIOR FILING DATE: 2000-02-08
NUMBER OF SEQ ID NOS: 126
SOFTHARE: PatentIn version 3.0
SEQ ID NO 97
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Breaker, Ronald
APPLICANT: Breaker, Ronald
APPLICANT: Beigelman, Leo
TITLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity
FILE REFERENCE: MBH800-884-H (500/001)
CURRENT APPLICATION NUMBER: US/09/780,929
CURRENT FILING DATE: 2001-02-08
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                                    US-09-780-929-23
US-09-780-929-24
US-09-780-929-25
US-09-780-929-26
US-09-780-929-28
US-09-780-929-30
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US-09-780-929-43
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                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 97, Application US/09780929 GENERAL INFORMATION:
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Matches 15; Conservative
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US-09-780-929-97
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US-09-780-929-3
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CTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid
NAME/KEY: misc_feature
LOCATION: (1)..(6)
COTHER INFORMATION: 2'-0-methyl
NAME/KEY: misc_feature
LOCATION: (21)..(27)
COTHER INFORMATION: 2'-0-methyl
COTHER INFORMATION: 2'-0-methyl
US-09-780-929-126
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                                                               US-09-780-929-126

i Sequence 126, Application US/09780929

i GENERAL INFORMATION:

APPLICANT: Ribozyme Pharmaceuticals, Inc.

APPLICANT: Beigelman, Leo

TUTLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity

FILE REFERENCE: MBHB00-84-H (500/001)

CURRENT APPLICATION NUMBER: US/09/780,929

CURRENT FILING DATE: 2001-02-08

PRIOR PILING DATE: 2000-02-08

NUMBER OF SEQ ID NOS: 126

SEQ ID NO 126

LENTH: 27
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APPLICANT: Breaker, Ronald
APPLICANT: Breaker, Ronald
APPLICANT: Breagelman, Leo
APPLICANT: Belgelman, Leo
TITLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity
FILE REFERENCE: MBHB00-884-H (500/001)
CURRENT APPLICATION NUMBER: US/09/780,929
CURRENT APPLICATION NUMBER: US 60/181,360
PRIOR FILING DATE: 2000-02-08
NUMBER OF SEQ ID NOS: 126
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100.0%; Pred. No. 4.2e+02;
ive 0; Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: RNA
ORGANISM: Artificial Sequence
7 AGAUAACGUGAAGAU 21
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Best Local Similarity 100.0
Matches 15, Conservative
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Enzymatic Nucleic Acid
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APPLICANT: Breaker, Ronald
APPLICANT: Breaker, Ronald
APPLICANT: Breaker, Ronald
APPLICANT: Breaker, Ronald
TITLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity
FILE REFERENCE: MBHB00-884-H (500/001)
FILE REFERENCE: MBHB00-884-H (500/001)
FILE REFERENCE: MBHB00-884-H (500/001)
FILE REFERENCE: 2001-02-08
PRIOR FILING DATE: 2000-02-08
NUMBER OF SEQ ID NOS: 126
SOFTWARE: Patentin version 3.0
                   TITLE OF INVENTION: NICLEIC ACID Catalysts with Endonuclease Activity FILE REFERENCE: MBHB00-884-H (500/001)
CURRENT APPLICATION NUMBER: US/09/780,929
CURRENT APPLICATION NUMBER: US/09/780,929
FILOR APPLICATION NUMBER: US 60/181,360
PRIOR FILING DATE: 2000-02-08
NUMBER OF SEQ ID NOS: 126
SOFTWARE: PatentIn version 3.0
SEQ ID NO 4
LENGTH: 28
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OTHER INFORMATION: n stands for inverted deoxyabasic derivative
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NAME/KEY: misc_feature
LOCATION: (1)..(5)
OTHER INFORMATION: 2'-0-Methyl
NAME/KEY: misc_feature
LOCATION: (22)..(27)
OTHER INFORMATION: 2'-0-Methyl
NAME/KEY: misc_feature
LOCATION: (28)..(28)
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NAME/KEY: misc_feature
LOCATION: (1)..(5)
OTHER INFORMATION: 2'-0-Methyl
NAME/KEY: misc_feature
LOCATION: (23)..(27)
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Pred. No. 4.2e+02;
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Sequence 5, Application US/09780929
GENERAL INFORMATION:
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Best Local Similarity 100.0%;

Matches 15; Conservative 0;
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LENGTH: 28
                                                                                                                                                                                                                                                               TYPE: RNA
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                                                                                                          OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid NAME/KEY: misc_feature LOCATION: (1)..(6) OTHER INFORMATION: 2'-0-Wethyl
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OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid
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APPLICANT: Beigelman, Leo
TITLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity
FILE REFERENCE: MEHBOO'884-H (500/001)
CURRENT APPLICATION NUMBER: US/09/780,929
CURRENT FILING DATE: 2001-02-08
                                                                                                                                                                                                                                            CTHER INFORMATION: 2'-0-Methyl
NAME/KEY: misc_feature
COCATION: (28)..(28)
COTHER INFORMATION: n stands for inverted deoxyabasic derivative
US-09-780-929-1
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Pred. No. 4.2e+02;
); Mismatches 0;
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100.0%; Pred. No. 4.2e+02;
tive 0; Mismatches 0;
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APPLICANT: Breaker, Ronald
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Matches 15; Conservative 0;
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LOCATION: (1)..(5)
OTHER INFORMATION: 2'-0-Methyl
NAME/KEY: misc_feature
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OTHER INFORMATION: 2'-0-Methyl
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Best Local Similarity 100.0%;
Matches 15; Conservative 0
                                             TYPE: RNA
ORGANISM: Artificial Sequence
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LOCATION: (21)..(27)
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LOCATION: (28)..(28)
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LENGTH: 28
SEQ ID NO 1
LENGTH: 28
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; OTHER INFORMATION: n stands for inverted deoxyabasic derivative US-09-780-929-7
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LOCATION: INFORMATION: 2'-0-Methyl
NAME/KEY: misc_feature
LOCATION: (20)..(27)
OTHER INFORMATION: 2'-0-Methyl
NAME/KEY: misc_feature
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ORGANISM: Artificial Sequence
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ORGANISM: Artificial Sequence
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                                                                      Query Match 100.

Best Local Similarity 100.

Matches 15; Conservative
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US-09-780-929-9
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LENGTH: 28
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OTHER INFORMATION: 2'-O-Methyl NAME/KEY: misc_feature LOCATION: (24)..(27)
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CURRENT APPLICATION NUMBER: US/09/780,929
CURRENT FILING DATE: 2001-02-08
PRIOR FILING DATE: 2000-02-08
NUMBER OF SEQ ID NOS: 126
SOFTWARE: Patentin version 3.0
                                                                                                                                                APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Breaker, Ronald
APPLICANT: Breaker, Ronald
APPLICANT: Breagelman, Leo
TITLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity
FILE REFERENCE: MBHB00-884-H (500/001)
CURRENT APPLICATION NUMBER: US/09/780,929
CURRENT FILING DATE: 2001-02-08
PRIOR FILING DATE: 2000-02-08
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NAME/KEY: misc_feature
CATION: (28)..(28)
CATION: 029-780-929-6
US-09-780-929-6
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Pred. No. 4.2e+02;
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Sequence 7, Application US/09780929
GENERAL INFORMATION:
                                                                                                           Sequence 6, Application US/09780929 GENERAL INFORMATION:
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LOCATION: (1)..(4)
OTHER INFORMATION: 2'-0-Methyl
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OTHER INFORMATION: 2'-0-Methyl
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Best Local Similarity 100.0%;
Matches 15; Conservative 0
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SOFTWARE: PatentIn version 3.0
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LENGTH: 28
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OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid
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GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Bleaker, Ronal
APPLICANT: Bereaker, Ronal
APPLICANT: Bereaker, Ronal
APPLICANT: Bereaker, Ronal
APPLICANT: Bereaker, Ronal
APPLICANTON NUMBER: US/09/780,929
CURRENT APPLICATION NUMBER: US/09/780,929
CURRENT FILING DATE: 2001-02-08
PRIOR APPLICATION NUMBER: US 60/181,360
PRIOR APPLICATION NOSE: US
OFFINARE: Patentin version 3.0
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APPLICANT: Beigelman, Leo
TITLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity
TITLE REFERENCE: MBHB00-884-H (500/001)
CURRENT APPLICATION NUMBER: US/09/780,929
CURRENT FILING DATE: 2001-02-08
PRIOR PELLING DATE: 2000-02-08
NUMBER OF SEQ ID NOS: 126
SOFTWARE: Patentin version 3.0
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; OTHER INFORMATION: n stands for inverted deoxyabasic derivative
US-09-780-929-8
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Score 15; DB 30;
Pred. No. 4.2e+02;
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Enzymatic Nucleic Acid

us-09-780-929-97.szlm60.rnpm

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FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:
NAME/KET: misc_feature
LOCATION: (1)..(6)
OTHER INFORMATION: 2'-0-Methyl
NAME/KEY: misc_feature
LOCATION: (21)..(27)
OTHER INFORMATION: 2'-0-Methyl
NAME/KEY: misc_feature
LOCATION: (28)..(28)
  FILE REFERENCE: MBHB00-884-H (500/001)
CURRENT APPLICATION NUMBER: US/09/780,929
CURRENT FILING DATE: 2001-02-08
PRIOR APPLICATION NUMBER: US 60/181,360
PRIOR FILING DATE: 2000-02-08
NUMBER OF SEQ ID NOS: 126
SOFTWARE: Patentin version 3.0
SOFTWARE: 28
LENGTH: 28
                                                                                                                                                                                                 TYPE: RNA
ORGANISM: Artificial Sequence
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      Enzymatic Nucleic Acid
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US-09-780-929-10
Sequence 10, Application US/09780929
Sequence 10, Application US/09780929
GENERAL INPORMATION:
APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Breaker, Ronald
APPLICANT: Besigelman, Leo
TITLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity
FILE REFERENCE: BHBR00-884+ (500/001)
CURRENT APPLICATION NUMBER: US 60/181,360
PRIOR FILING DATE: 2001-02-08
PRIOR FILING DATE: 2000-02-08
NUMBER OF SEQ ID NOS: 126
SEQ ID NOS: 126
SEQ ID NO 10
LENGTH: 28
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                                                                                                                                                                                                                                     COTHER INFORMATION: n stands for inverted deoxyabasic derivative US-09-780-929-9
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OTHER INFORMATION: Description of Artificial Sequence:
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Best Local Similarity 100.0%; Pred. No. 4.2e+02;
Matches 15; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                           100.0%; Score 15; DB 30; 100.0%; Pred. No. 4.2e+02;
                                                                                                                                                                                                                                                                                                                                                                          Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-780-929-11; Sequence 11, Application US/09780929; GENERAL INFORMATION:
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                                 LOCATION: (1)..(6)
OTHER INFORMATION: 2'-0-Methyl
NAME/KEY: mlsc.feature
                                                                                                                                                  NAME/KEY: misc_feature
LOCATION: (21)..(27)
OTHER INFORMATION: 2'-0-Methyl
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LOCATION: (1). (7)
OTHER INFORMATION: 2'-0-methyl
                                                                                                            LOCATION: (12)..(12)
OTHER INFORMATION: 2'-0-Methyl
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Best Local Similarity 100.
Matches 15; Conservative
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                      NAME/KEY: misc_feature
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OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid
NAME/KEX: misc.feature
LOCATION: (1)..(6)
OTHER INFORMATION: 2'-0-Methyl
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APPLICANT: Breaker, Ronald
APPLICANT: Beigelman, Leo
TITLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity
FILE REFERENCE: MBH900-884-H (500/001)
CURRENT APPLICATION NUMBER: U$/09/780,929
CURRENT FILING DATE: 2001-02-08
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OTHER INFORMATION: n stands for inverted deoxyabasic derivative
OTHER INFORMATION: n stands for inverted deoxyabasic derivative
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                                                              Score 15; DB 30; Length 28 Pred. No. 4.2e+02;
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Pred. No. 4.2e+02;
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                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                     Sequence 12, Application US/09780929
GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals, Inc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: US 60/181,360 PRIOR FILING DATE: 2000-02-08 UNMBER OF SEQ ID NOS: 126 SOFTWARE: Patentin version 3.0 SEQ ID NO 12
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Best Local Similarity 100.C
Matches 15; Conservative
                                                              Query Match 100.
Best Local Similarity 100.
Matches 15; Conservative
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PD 7 AGAUAACGGAAGAU 21

RESULT 15

US-09-780-929-13

Sequence 13. Application US/09780929

GENERAL INFORMATION:
Plantage plantage of the plant
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GenCore version 5.1.6 Copyright (c) 1993 - 2003 Compugen Ltd.

	copyright (c) 1993 - 2003 Compugen Ltd.
OM nucleic - nu	OM nucleic - nucleic search, using sw model
Run on:	July 6, 2003, 14:26:16; Search time 591.818 Seconds (without alignments) 885.154 Million cell updates/sec
Title: Perfect score: Sequence:	US-09-780-929-98 18 1 aauggccuaucggugcga 18
Scoring table:	IDENTITY_NUC Gapop 10.0 , Gapext 1.0
Searched:	2054640 segs, 14551402878 residues
Total number of	Total number of hits satisfying chosen parameters: 897812
Minimum DB seq length: 0 Maximum DB seq length: 60	length: 0 length: 60
Post-processing	Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries
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GenEmbl:\* Database :

gb\_ow: \*
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gb\_pl: \*
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em\_htg\_vrt:\* em\_htg\_mus: em\_ro:\* em\_sts:\* em\_un:\* em\_vi:\*

Pred. No. is the number of results predicted by chance to have a

em\_htgo\_hum:\*
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em\_htgo\_other:\*

score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

	Result	11		* Ouerv			SUMMARIES	
	CD4	No.	Score	Match	Length	DB	ID	Description
		Т	18	100.0	18	9	AX214296	967
		7	_	100.0	29	७	AX214316	316
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	υ	10	11.8		20	9	E30812	a
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		12	11.8		24	9	AX288459	_
		13			24	9	AX447444	AX447444 Sequence
		14		9.69	30	9	A29209	A29209 DNA probe f
		15			30	φ,	A29212	⇉.
		16		Ξ.	40	φ,	AR178716	AR178716 Sequence
		17			40	9	AR205421	AR205421 Sequence
	O	18		64.4	22	9	AX166857	AX166857 Sequence
	O	19		64.4	24	9	AX166856	AX166856 Sequence
	O	20		64.4	25	9	AX166855	AX166855 Sequence
		21		64.4	26	9	122031	I22031 Sequence 5
	ပ	22		64.4	29	9	AR023454	AR023454 Sequence
_	ပ	23		64.4	29	9	E46848	
	ပ	24		64.4	30	9	AR023453	AR023453 Sequence
	ပ	25	11.6	64.4	30	9	AR092568	AR092568 Sequence
	о	56			30	Q	AR139964	AR139964 Sequence
	ပ	27		64.4	30	9	AR140283	AR140283 Sequence
	ပ	28	11.6	٠.	30	9	AR140561	AR140561 Sequence
	υ	29			30	9	E46847	rivative
		30	11.6	64.4	41	9	A63966	ed
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		34	٠.		17	9	AR057682	AR057682 Sequence
		32	11.4	•	17	9	AR057773	
		36	11.4		17	ø	AR115440	
		37	11.4	•	17	9	AR115531	531
		38	11.4		21	9	AR167007	004
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	U	40	11.4	٠	24	9	AX447141	141
		41	11.4		25	9	AR097506	AR097506 Sequence
		42	11.4		25	9	AR139820	0
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PAT 06-											(ns)
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mRNA									τy		. Ya
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18 bp	Sequence 109 from Patent WO0159102. AX214296								Nucleozymes with endonuclease activity	Patent: WO 0159102-A 109 16-AUG-2001;	INC.
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Barany, F., Zirvi, M., Gerry, N.P., Favis, R. and Kliman, R. Method of designing addressable array for detection of nucleic acid sequence differences using ligase detection reaction Patent: WO 0179548-A 3032 25-0CT-2001; CORNELL RESEARCH FOUNDATION, INC. (US)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Barany, F., Zirvi, M., Gerry, N. P., Favis, R. and Kliman, R. Method of designing addressable array for detection of nucleic acid sequence differences using ligase detection reaction Patent: WO 0179548-A 5661 25-OCT-2001; CORNELL RESEARCH FOUNDATION, INC. (US)
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64.7%; Pred. No. 5.5e+04;
ive 3; Mismatches 3; Indels
   Length 20;
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 71.1%; Score 12.8; DB 6; 68.8%; Pred. No. 2.5e+04; ive 3; Mismatches 2;
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/db_xref="taxon:32630"
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Sequence 3032 from Patent W00179548.
AX291270
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Best Local Similarity 64.7
Matches 11; Conservative
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Patent: WO 0159102-A 129 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US); rale University (US)
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/organism="synthetic construct"
/db_xref="taxon:32630"
/note="Hypothetical Probe Sequence"
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    /organism="synthetic construct"
/db_xref="taxon:32630"
/note="Nucleic Acid"

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    /organism="synthetic construct"
/db_xref="taxon:32630"

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Sequence 7665 from Patent WO0179548.
AX295903
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Sequence 129 from Patent W00159102.
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artificial sequences.
1 (bases 1 to 29)
Breaker,R. and Emilsson,G.
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AX214316.1 GI:15524393
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Best Local Similarity 77.8%;
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Barany, F., Zirvi, M., Gerry, N.P., Favis, R. and Kliman, R. Method of designing addressable array for detection of nucleic acid sequence differences using ligase detection reaction Patent: WO 0179548-A 4854 25-0CT-2001; CORNELL RESEARCH FOUNDATION, INC. (US)
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Shigeru,N. and Hirofumi,S.
Novel protein participating in differentiation of cranial nerve
tissue cell
Patent: JP 1999318468-A 6 24-NOV-1999;
                 Viruses; ssDNA viruses; unclassified ssDNA viruses
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/db_xref="taxon:32630"
/note="Hypothetical Probe Sequer
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Sequence 4854 from Patent WO0179548.
AX293092
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BIO_MERIEUX (FR)
Location/Qualifiers
                                        Ott,C. and Komurian-Pradel,F. TT virus polypeptide, nucleic acid
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/organism="TT virus"
/db_xref="taxon:68887"
/ db_ 5 c 8 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 (bases 1 to 29)
Ausubel, F., Goodman, H. M., Rahme, L. G., Mahajan-Miklos, S., Tan, M.-W., Cao, H., Drenkard, E. and Tsongalis, J.
Virulence-associated nucleic acid sequences and uses thereof Patent: US 6355411-A 144 12-MAR-2002;
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llarity 64.7%; Pred. No. 5.5e+04;
Conservative 3; Mismatches 3; Indels
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llarity 64.7%; Pred. No. 5.5e+04;
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/db_xref="taxon:32630"
/note="Hypothetical Probe Sequence"
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Sequence 1028 from Patent W00179548,
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Sequence 4 from Patent W00183757.
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Barany, F., Zirvi, M., Gerry, N.P., Favis, R. and Kliman, R. Method of designing addressable array for detection of nucleic acid sequence differences using ligase detection reaction Patent: WO 0179548-A 21 25-OCT-2001; CORNELL RESEARCH FOUNDATION, INC. (US)
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/organ.sm="synthetic construct"
/db_xref="taxon:32630"
/note="Computer Generated Probe Sequence."
/ note="Computer Generated Probe Sequence."
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Pred. No. 9.2e+04;
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    /organism="synthetic construct"
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/organism="synthetic construct"
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Best Local Similarity 73.3%;
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                                                                                                                                C12N1/21, C12N5/10, C12P21/02, C12Q1/68//(C12N5/10, C12R1:91), PC
                                                                                      SHIGERU NOGUCHI, HIROFUMI SUEMORI
C12N15/09, A01K67/027, A61K38/00, A61K48/00, C07K14/47, C07K16/18,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Promoter regions of the mouse and human telomerase rna component
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KEITH WILLIAM NICOL (GB); CANCER RES CAMPAIGN TECH (GB)
Location/Qualifiers
 KANAGAWA ACADEMY OF SCIENCE, MEIJI MILK PROD CO LTD
                                                                                                                                                                                                                                                                                                                                                        Length 20;
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Strandedness: Single;
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Pred. No. 9.2e+04;
1; Mismatches 2;
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3; Mismatches 2;
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/organism="synthetic construct"
/db_xref="taxon:32630"
/note="Oligonucleotide"
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Sequence 221 from Patent W00179548.
AX288459.1 GI:17050142
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Sequence 50 from Patent WO9938964.
AX019596

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    /organism="unidentified"

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                                                         15-MAY-1998 JP 1998152027
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               Unidentified
JP 1999318468-A/6
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artificial sequences.
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Keith, W.N.
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Best Local Similarity 66.7%;
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                                                                                                                                                            A29212 30 bp DNA linear Oligonucleotide OAB1088 from patent WO9111459. A29212.1 GI:1248933
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Search completed: July 6, 2003, 14:51:13 Job time: 593.818 secs Oligonoclectide ad Capture oligonucle Capture oligonucle Capture oligonucle Capture oligonucle Probe OAB 1088 for P. carini 182 RNA Beta-lactamase gen

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

/SIDS2/gcgdata/geneseq/geneseqn-embl/NA2002.DAT:\*

			Description		DNA encoding deoxy	Class IV ribozyme.	CMV mutagenic adap	Human spliced tran	Capture oligonucle	Capture oligonucle	Capture oligonucle	Staphylococcus aur	Capture oligonucle
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SUMMAKIES			ID		AAS12348	AAS12381	AAS19241	ABN47743	ABI95945	ABI88460	ABI88461	AAC87378	ABI93941
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AAA13756 Stem cell factor u	AA233/99 Reverse transcript			ALIGNMENTS		6	. 40			. 8	Deoxyribozyme; cytostatic; endonuclease; RNA cleavage; DNA cleavage; gene therapy; plant; fungus; bacteria; mammal; ribozyme; ss.							Emilsson G;		acids with endonuclease activity, such as ribozymes and
30 21		30 22					DINA; TO		(first entry)	deoxyribozyme	ytostatic; ant; fungus				2001WO-US04223	2000US-0181360. 2000US-0193646.	PHARM INC. E.	Beigelman L, E	/59.	s with endo
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                                                                                   to modulate expression of a gene in a plant, mammalian, bacterial or fungal cell. They are used to cleave a separate nucleic acid, preferably RNA. The nucleic acids are used to inhibit gene expression and/or cell proliferation, and can be used to intend a disease or condition. More than one nucleic acid can be independently targeted to the same or different sites in a cell. The nucleic acids may be used to study DNA. The modifications to the nucleic acids optimises their catalytic activity and can maintain or enhance their activity. They exhibit a high degree of specificity for RNA. The present sequence represents the coding sequence of deoxyribozyme #8 used in the method of the invention.
                                                    The invention relates to nucleic acid molecules with endonuclease activity, which are particularly useful for cleavage of RNA or DNA. The nucleic acids are used in a pharmaceutical composition and are used
                                                                                                                                                                                                                                                         Gaps
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nucleozymes, for modulating gene expression in a plant, mammalian,
bacterial or fungal cell
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                              Claim 49; Page 77; 96pp; English.
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                                                                                                                                                                                                                                                                                                                                                     AAS12381 standard; RNA; 29
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                                                             The invention relates to nucleic acid molecules with endonuclease activity, which are particularly useful for cleavage of RNA or DNA. The nucleic acids are used in a pharmaceutical composition and are used to modulate expression of a gene in a plant, mammalian, bacterial or fungal cell. They are used to cleave a separate nucleic acid, preferably FNA. The nucleic acids are used to inhibit gene expression and/or cell proliferation, and can be used to inhibit gene expression and/or cell proliferation, and can be used to inhibit argeted to the same or than one nucleic acid can be independently targeted to the same or different sites in a cell. The nucleic acids may be used to study DNA. The modifications to the nucleic acids optimises their catalytic activity and can maintain or enhance their activity. They exhibit a high degree of specificity for RNA. The present sequence represents the class IV ribosyme, used in an example which demonstrates the method of
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TO; ds; terminator; pGA, DNA vaccine; anti-HIV; virucide; Human Immunodeficiency Virus; HIV; Gaq; HIV gpl20; HIV Pol; HIV Env; HIV VLP; measles fusion protein; measles hacmagglutinin; CMV; adaptor; measles nucleoprotein; influenza hacmagglutinin; C3d gene; cell-mediated immune response; humoral immune response; infection.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ellenberger
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 100.0%; Score 18; DB 22; Length 29; Best Local Similarity 100.0%; Pred. No. 0.67; Matches 18; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Hua J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Bright RA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 29 BP; 6 A; 7 C; 11 G; 5 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 2; Page 43; 174pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ross TM,
Example 1; Fig 9; 96pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ANDGGCCUAUCGGUGCGA 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 AAUGGCCUAUCGGUGCGA 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               02-MAR-2001; 2001WO-US06795.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2000US-186364P.
2000US-251083P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 3
AAS19241/C
ID AAS19241 standard; DNA; 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             26-MAR-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Smith JM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CMV mutagenic adaptor:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human cytomegalovirus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2002-075465/10.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO200192470-A2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-DEC-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Robinson HL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   06-DEC-2001
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transcription cassette comprising a vaccine insert encoding one or more immunogens derived from a pathogen e.g. Human Immunodeficiency Virus (HIV) 6a9. HIY gpl20, HIV PO1, HIV EDV. HIV VLP, or its mutants, measles (Lusion protein, measles haemagglutinin, measles nucleoprotein, influenza haemagglutinin, or its mutants, or subsequences, and optionally at least one C3d gene, is useful for immunising or treating a patient, when administered by an intramuscular or intradermal route. The immunisation methods using pGA elicit both cell-mediated and humoral immune responses that may limit the infection, spread or growth of the pathogen and result in protection against subsequent challenge against the pathogen. The terminator sequence present prevents read-through from the Kanamycin cassette into vaccine sequences while the plasmid is being produced in bacteria. Prevention of transcriptional read-through stabilises vaccine in the case of the plasmid is being produced in the case of th
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      can be recognised by bacterial endonucleases. The present sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                introducing a ClaI site into the cytomegalovirus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                adaptor for intro
promoter of pGA2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      an
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6 G; 5 T; 0 other; Sequence 30 BP; 7 A; 12 C;

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Gaps
                         ;
0
 Length 30;
                         Indels
 Score 13.8; DB 24;
Pred. No. 1.9e+02;
                         4; Mismatches
                                              2 AUGGCCUAUCGGUGCGA 18
                                                                     6
76.78;
64.78;
                                                            |:||| :|:|| :|||| 25 ATGGCGTATCGATGCGA
            Local Similarity 64.7 ses 11; Conservative
 Query Match
                                               δŏ
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ABN47743 standard; DNA; 60 BP (first entry) 15-JUL-2002 ABN47743; ABN47743 RESULT 

Human spliced transcript detection oligonucleotide SEQ ID NO:20491 Human; mouse;

Human; mouse; rat; splice transcript; detection; RNA transcript; splice variant; transcriptome; oligonucleotide library; ss.

Homo sapiens.

WO200210449-A2

07-FEB-2002.

20-JUL-2001; 2001WO-IB01903.

28-JUL-2000; 2000US-221607P. 02-MAY-2001; 2001US-287724P.

(COMP-) COMPUGEN INC.

Shoshan A,

Faigler S; Mintz L, Mintz E, Wasserman A, WPI; 2002-257383/30. New oligonucleotide libraries comprising oligonucleotides which selectively hybridize to mRNAs transcribed from a transcription unit of a genome, useful for detecting tissue-, pathology-, and developmental-specific genes

Example 1; SEQ ID 20491; 47pp; English.

The present invention describes oligonucleotide libraries for detecting messenger RNAs that populate a (sub-)transcriptome, where the (sub-)transcriptome comprises messenger RNAs transcribed from multiple transcription units that populate a genome. The library comprises several oligonucleotides, each capable of hybridising selectively to a set of messenger RNAs transcribed from a given transcription unit of the genome, which encodes one or more messenger RNA splice variants.

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The oligonucleotide libraries are useful for detecting mRNAs from a biological sample, in expression profiling studies, in qualitatively or quantitatively characterising the corresponding transcriptome, and in detecting RNA transcripts and splice variants of human or animal transcriptomes. The libraries may also be used as specialised minilibraries to detect transcripts of a sub-transcriptome under a particular biological or pathological state, and so allowing the detection of tissue- and pathology-specific genes such as those genes only expressed in specific tissue under a specific pathological condition; to detect developmental specific genes; and to detect RNA transcripts and splice variants of a transcriptome of a patient suffering
                                                                                                                                                                                                                                                                                                                                                                 from a particular disorder. ABN27253 to ABN59589 meet a particular disorder. ABN27253 to ABN59589 meet a particular disorder. ABN27253 to ABN59589 meet a particular disorder. Abne and mice, which are used in the exemplification of the present invention.

N.B. The sequence data for this partent did not form part of the printed specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          specification, but was obtained in electroni
at ftp.wipo.int/pub/published_pct_sequences.
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Sequence 60 BP; 16 A; 18 C; 13 G; 13 T; 0 other;

Gaps ; Length 60; Indels Score 13.4; DB 24; Pred. No. 3.6e+02; 4; Mismatches 74.48; 66.78; 1 AAUGGCCUAUCGGUG 15 10; Conservative Query Match Best Local Similarity Matches . ŏ

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| :||||:|||:| | ATTGGCCTATCGGTG 15

qq

AB195945 standard; DNA; 20 BP (first entry) 16-FEB-2002 ABI95945; RESULT 5 ABI95945 ID ABI99 

Capture oligonucleptide Zip ID#3032 oligo #9.

Human; K-ras; PCR primer; probe; capture probe; mutation detection; ligase detection reaction; LDR; p53; BRCA1; BRCA2; infectious disease; infections 21 hydroxylase deficiency; Turner Syndrome; obesity; cancer; oncogene; tumour suppressor; human papillomavirus; forensic; environmental monitoring; food industry; feed industry; ss.

Synthetic.

WO200179548-A2.

25-OCT-2001

04-APR-2001; 2001WO-US10958. 14-APR-2000; 2000US-197271P. (CORR ) CORNELL RES FOUND INC

Kliman Favis R, Gerry NP, Zirvi M, Barany F,

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WPI; 2002-034366/04

Designing capture oligonucleotide probes for use on a support to which complementary oligonucleotides hybridize with little mismatch -

Example 5; Fig 29; 300pp; English.

oligonucleotide probes (I) for use on a support to which complementary oligonucleotide probes (II) will hybridise with little mismatch, where (I) have melting temperatures within a narrow range. The method is useful for detecting infectious diseases caused by bacterial infectious agents e.g. Salmonella, Listeria monocytogenes and Haemophilus influenza, fungal infectious agents e.g. Cryptococcus neoformans, Candida albicans and The present invention describes a method (M1) for designing capture

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Experimental particular series of the parasitic infections carries, present virus and polio virus, and parasitic infections carries selected from Onchoverva volvulus, Entamoeba histolytica and Dracunculus medinesis. The method is also useful for detecting genetic diseases such as 21 hydroxylase deficiency, Turner Syndrome and obesity defects.

Detecting cancer involving oncogenes, tumour suppressor genes, or genes involved in DNA amplification, replication, recombination or repair, the cancer is specifically associated with a gene selected from BrCA1 gene, buman papillomavirus types 16 and 18 and 11ver cancers. The method is also used for environmental monitoring, forensics and the food and feed industry, detecting comprises scanning (using e.g. a scanning electron microscope and infrared microscope) the support at the particular sites and identifying if ligation of the oligonuclectide probe sets occurred and correlating (using e sets occurred and correlating (using ecomputes) identified ligation to a presence or absence of the target nucleotide sequences. ABISE2074 to ABISE2074 correlating computes used in the exemplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention describes a method (M1) for designing capture oligonucleotide probes (I) for use on a support to which complementary oligonucleotide probes (II) will hybridise with little mismatch, where (I) have melting temperatures within a narrow range. The method is useful for detecting infectious diseases caused by bacterial infectious agents e.g. Salmonella, Listeria monocytogenes and Haemophilus influenza, fungal infectious agents e.g. Cryptococcus neoformans, Candida albicans and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Designing capture oligonucleotide probes for use on a support to which complementary oligonucleotides hybridize with little mismatch - \,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; K-ras; PCR primer; probe; capture probe; mutation detection, ligase detection reaction; LDR; p53; BRCA1; BRCA2; infectious disease; infection; 21 hydroxylase deficiency; Turner Syndrome; obesity; cancer; oncogene; tumour suppressor; human papillomavirus; forensic; environmental monitoring; food industry; feed industry; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Kliman R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 12.8; DB 24;
Pred. No. 7.2e+02;
3; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Capture oligonucleotide Zip ID#3032 oligo #1.
                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 20 BP; 2 A; 6 C; 6 G; 6 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Favis R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 5; Fig 25; 300pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (CORR ) CORNELL RES FOUND INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  71.18;
68.88;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2 AUGGCCUAUCGGUGCG 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 ACGGCTTATCGGTGCG 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    14-APR-2000; 2000US-197271P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 71.1'
Best Local Similarity 68.8
Matches 11; Conservative
                                                                                                                                                                                                                                                                                                                                                          of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Barany F, Zirvi M,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABI88460;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABI88460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            δy
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Epstein Barr Virus and polio virus, and parasitic infectious agents selected from Onchoverva volvulus, Entamoeba histolytica and Dracunculus medinesis. The method is also useful for detecting genetic diseases such as 21 hydroxylase deficiency, Turner Syndrome and obesity defects.

Detecting cancer involving oncogenes, tumour suppressor genes, or genes involved in DNA amphilitation, replication, recombination or repair, the cancer is specifically associated with a gene selected from BRCAl gene, buman papillomavirus types 16 and 18 and liver cancers. The method is also used for environmental monitoring, forensics and the food and feed industry, detecting comprises scanning (using e.g. a scanning electron microscope and infrared microscope) the support at the cancer stees and identifying if ligation of the oligonuclectide probe sets occurred and correlating (using a computer) identified ligation to a presence or absence of the target nuclecitie sequences. AB182074 to AB197646 represent oligonuclectide sequences used in the exemplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention describes a method (MI) for designing capture obligonucleotide probes (I) for use on a support to which complementary oligonucleotide probes (II) will hybridise with little mismatch, where (I) have melting temperatures within a narrow range. The method is useful for detecting infectious diseases caused by bacterial infectious agents e.g. Salmonella, Listeria monocytogenes and Haemophilus influenza, fungal infectious agents e.g. Carptococcus neoformans, Candida albicans and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Designing capture oligonucleotide probes for use on a support to which complementary oligonucleotides hybridize with little mismatch -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ligase detection reaction; LDR; p53; BRCA1; BRCA2; infectious disease; infection; 21 hydroxylase deficiency; Turner Syndrome; obesity; cancer; oncogene; tumour suppressor; human papillomavirus; forensic; environmental monitoring; food industry; feed industry; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
  Aspergillus fumigautus, viruses e.g. T-cell lymphocytotrophis cirus,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; K-ras; PCR primer; probe; capture probe; mutation detection;
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                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                          71.1%; Score 12.8; DB 24;
68.8%; Pred. No. 7.3e+02;
tive 3; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Favis R, Kliman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Capture oligonücleotide Zip ID#3032 oligo #2.
                                                                                                                                                                                                                                                                                                                                                                                              Sequence 24 BP; 2 A; 7 C; 7 G; 8 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 5; Fig 25; 300pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Barany F, Zirvi M, Gerry NP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (CORR ) CORNELL RES FOUND INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABI88461 standard; DNA; 24 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2 AUGGCCUAUCGGUGCG 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2 ACGCCTTATCGGTGCG 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14-APR-2000; 2000US-197271P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                     of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2002-034366/04
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABI88461;
                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABI88461/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 7
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Detecting cancer involving oncogenes, tumour suppressor genes, or genes involved in DNA amplification, replication, recombination or repair, the cancer is specifically associated with a gene selected from BRCA1 gene, p53 gene, human papillomavirus types 16 and 18 and liver cancers. The method is also used for environmental monitoring, forensics and the food and feed industry, detecting comprises scanning (using e.g. a scanning electron microscope and infrared microscope) the support at the particular sites and infrared microscope) the support at the particular sites and infrared microscope) the support at the set occurred and correlating (using a computer) identified ligation to a
Aspergillus fumigautus, viruses e.g. T-cell lymphocytotrophis cirus, Epstein-Barr virus and polio virus, and parasitic infectious agents selected from Onchoverva volvulus, Entamoeba histolytica and Dracunculus
                                                                 selected from Onchoverva volvulus, Entamoeba histolytica and Dracunculus medinesis. The method is also useful for detecting genetic diseases such as 21 hydroxylase deficiency, Turner Syndrome and obesity defects.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        presence or absence of the target nucleotide sequences. ABI82074 to ABI87546 represent oligonucleotide sequences used in the exemplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         of the present invention.
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Sequence 24 BP; 8 A; 7 C; 7 G; 2 T; 0 other;

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Gaps
                              0;
        Score 12.8; DB 24; Length 24;
Pred. No. 7.3e+02;
3; Mismatches 2; Indels (
          71.1%;
68.8%;
                                               2 AUGGCCUAUCGGUGCG 17
                                                                   8
Query Match
Best Local Similarity 68.00,
                                                                  23 ACGGCTTATCGGTGCG
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Staphylococcus aureus SpA domain D antisense PCR primer, PC3H AS. AAC87378 standard; DNA; 41 BP 09-MAR-2001 (first entry) AAC87378; RESULT 8 AAC87378 

SpA domain D; randomised library; VH3 Ig-Fab fragment; immunoglobulin; SpA mutant; superantigen; altered specificity; apoptosis inducer; anergy inducer; B-lymphocyte subset; B-cell; lymphoma; leukaemia; autolimmune disease; idiopathic thrombocytopenia; rheumatoid arthritis; systemic lupus erythematosus; SLE; autoimmune thyroiditis; diabetes antibody purification; PCR primer; ss.

Staphylococcus aureus.

WO200069457-A1.

23-NOV-2000.

15-MAY-2000; 2000WO-US13402

99US-0134386 15-MAY-1999; (UYCA-) UNIV CALIFORNIA SAN DIEGO.

Silverman GJ;

WPI; 2001-031886/04.

New staphylococcal protein A variant, useful for treating diabetes and rheumatoid arthritis, exhibits binding specificity for immunoglobulin-Fab domain and comprises variations in amino acid sequence of staphylococcal protein. A domain D  $\,$ 

Example 12; Page 58; 88pp; English.

The invention relates to staphylococcal protein A (SpA) variants which exhibit altered binding specificity for an immunoglobulin Fab (Ig-FAb) fragment relative to native SpA. The SpA variants of the invention have one or more amino acid substitution in the SpA VH3 Ig-Fab binding region

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            Inducers of autoreactive B cell, leukaemic or lymphoma cell apoptosis or anergy. The SpA variants of the invention are useful for detecting the presence of a certain Ig-Fab-expressing lymphocyte subset in a sample of lymphocytes. The SpA variants may therefore be used in the diagnosis of some forms of leukaemia. The SpA variants may also be administered to an individual with an abnormally high number of a certain lymphocyte subset to reduce the number of that lymphocyte subset. The SpA variants are also useful for purifying monoclonal or polyclonal antibodies from serum, plasma, tissue culture or other sources. The SpA variants that exhibit enhanced clan VH3-specific effects in vitro or in vivo, such as
                                                                                                                                                                                                                                                                                                                                                                    deletion by other mechanisms. By engineering the interaction between Spa variants and Ig-Fab according to the invention, variant Spa with specially tailored Fab-binding specificities can be selected that target pathogenic neoplastic B cell populations or autoreactive B-cell clones. The Spa variants are therefore useful for treating conditions that are linked to disease associated B-cells such as idiopathic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ig-expressing B cells in vivo compared with targetting using a specific antigen. Sequences AACR3732-C87378 represent nucleic acid sequences used in the construction of a randomised SpA domain D library in an exemplification of the invention. Sequences AAC87375-C87378 represent
                                                                                                                                                                                                                                                  the ability to delete undesirable neoplastic B-cells or pathogenic B-cells that are responsible for the production of disease-causing autoantibodies, are useful as therapeutic agents. Therapeutic SpA variants that can bind to Fab on the B-cell receptor of an autoreactive B-cell or leukaemic or lymphoma cell can induce anergy, apoptosis, or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ligase detection reaction, LDR; p53; BRCA1; BRCA2; infectious disease; infection; 21 hydroxylase deficiency; Turner Syndrome; obesity; cancer; oncogene; tumour suppressor; human papillomavirus; forensic; environmental monitoring; food industry; feed industry; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              thrombocytopenia, rheumatoid arthritis, systemic lupus erythematosus (SLE), autoimmune thyroiditis, or diabetes. Engineered B cell superantigens (such as the SpA variants of the invention) bind to immunoglobulin receptors on B-cells in a manner that is distinct from
SpA domain D) relative to the native SpA. The SpA variants are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               antigen binding by antibodies. Therefore, the SpA variants which have superantigen properties can target much larger populations of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; K-ras; PCR primer; probe; capture probe; mutation detection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 41;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SpA domain D PCR primers used in library construction.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 12.4; DB 22;
Pred. No. 1.3e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 41 BP; 5 A; 9 C; 19 G; 8 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Capture oligonucleptide Zip ID#1028 oligo #9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABI93941 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CORR ) CORNELL RES FOUND INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   68.9%;
64.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         04-APR-2001; 2001WO-US10958.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3 UGGCCUAUCGGUGC 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       23 TGGCCTTTCGGTGC 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16-FEB-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO200179548-A2.
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Example 5; Fig 25; 300pp; English.
 30-JUN-2000; 2000US-0215405.
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                                                                                                                                              Oligonucleotide probes (I) for use on a support to which complementary oligonucleotide probes (II) will hybridise with little mismatch, where (I) have melting temperatures within a narrow range. The method is useful for detecting infectious diseases caused by hacterial infectious agents of cryptococcus neoformans, Candida ablicans and hapergillus fumigautus, viruses e.g. T-cell lymphocytotrophis cirus, Epstein-Barr virus and pollo virus, and parasitic infectious agents of selected from Onchoverva volvulus, Entamoeba histolytica and Dracunculus medinesis. The method is also useful for detecting genetic diseases such as 21 hydroxylase deficiency, Turner Syndrome and obesity defects. Detecting cancer involving oncogenes, tumour suppressor genes, or genes involved in DNA amplification, replication, recombination or repair, the cancer is specifically associated with a gene selected from BRCAI gene, human papillomavirus types 16 and 18 and liver cancers. The method is also used for environmental monitoring, foreignes and the food method is also used for environmental monitoring, foreignes and the food
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                                                                                                                                                                                                                                                                                                                                                                                                   and feed industry, detecting comprises scanning (using e.g. a scanning electron microscope and infrared microscope) the support at the particular sites and identifying if ligation of the oligonuclectide probe sets occurred and correlating (using a computer) identified ligation to a presence or absence of the target nucleotide sequences. ABI82074 to ABI97546 represent oligonucleotide sequences used in the exemplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PD-ATP-binding cassette; PD-ABC; chromosome 19p13.3; spleen; thymus; ss; peripheral blood leukocyte; bone marrow; lymph node; dyslipidaemia; cardiovascular disorder; inflammatory disorder; abnormal calcium flux; epilepsy; coronary artery disease; Tangier's disease; atherosclerosis; familial high-density liopportein deficiency; fatty liver disease; atherosclerosis; diabetes; insulin resistance; obesity; drug screening; alcoholism; retinal degeneration; hypertension; vascular disease;
                                                           Designing capture oligonucleotide probes for use on a support to which complementary oligonucleotides hybridize with little mismatch -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                    The present invention describes a method (M1) for designing capture
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human PD-ATP-binding cassette (PD-ABC) cDNA reverse PCR primer #2.
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. 1.6e+03;
...aa 3; Indels
 Kliman R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 12.2; DB 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 20 BP; 7 A; 6 C; 4 G; 3 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred. No. 1.6e
; Mismatches
 Favis R,
                                                                                                    Example 5; Fig 29; 300pp; English
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   Gerry NP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAS08711 standard; DNA; 24 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2 AUGGCCUAUCGGUGCGA 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       67.8%;
64.7%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 the present invention.
Barany F, Zirvi M,
                            WPI; 2002-034366/04
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO200153490-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAS08711;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 10
AAS08711/c
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The sequence represents a PCR primer used for isolation of cDNA encoding human PD-ATP-binding cassette (PD-ABG) protein. PD-ABC maps to chromosome 19913.3 and is expressed in various tissues including spleen, thymus, peripheral blood leukocytes, bone marrow and lymph nodes. The PD-ABC DNA molecules and proteins are used to diagnose and treat cardiovascular disorders, inflammatory disorders, dyslipidaemia, epilepsy, diseases related to abnormal calcium flux, coronary artery disease, Tangler's disease, faitlal high-density lipoprotein deficiency, atherosciencis, diabetes, fatty liver disease, insulin resistance, obesity, alcoholism, retinal degeneration, hypertension and vascular disease. The sequences
                                                                                                                                                                                             New Human PD-ABC DNA molecules and proteins for diagnosis and treatment of dyslipidaemia, epilepsy and diseases related to abnormal calcium flux
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human, K-ras, PCR primer; probe; capture probe; mutation detection; ... ligase detection reaction, LDR; p53; BRCA1; BRCA2; infectious disease; infection; 21 hydroxylase deficiency; Turner Syndrome; obesity; cancer; oncogene; tumour suppressor; human papillomavirus; forensic; environmental monitoring; food industry; feed industry; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            67.8%; Score 12.2; DB 22;
58.8%; Pred. No. 1.6e+03;
iive 4; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Capture oligonucleotide Zip ID#1028 oligo #1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              are also used in drug screening assays.
                                                                                                                                                                                                                                                                                                                                  Disclosure; Page 34; 77pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Barany F, Zirvi M, Gerry NP,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2 AUGGCCUAUCGGUGCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABI84452 standard; DNA; 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
(WARN ) WARNER LAMBERT CO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 67.8 Best Local Similarity 58.8 Matches 10; Conservative
                                                           Tafuri SR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2002-034366/04.
                                                                                                                          WPI; 2001-442259/47.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABI84452;
                                                               Johns MA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 11
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The present limenton destribes a method (M1) for designing capture oligonucleotide probes (II) will hybridise with little mismatch, where (I) have melting temperatures within a narrow range. The method is useful for detecting infectious diseases caused by bacterial infectious agents (I) for capture and harrow range. The method is useful for detecting infectious diseases acused by bacterial infectious agents (I) for cryptococcus neoformans, Candida albicans and Aspergillus funiquetus, viruses e.g. T-cell lymphocytotrophis cirus, Epstein-Barr virus and polio virus, and parasitic infectious agents companies of the properties of the prope
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; K-ras; PCR primer; probe; capture probe; mutation detection; ligase detection reaction; LDR; p53; BRCA1; BRCA2; infectious disease; infection; 21 hydroxylase deficiency; Turner Syndrome; obesity; cancer; oncogene; tumour suppressor; human papillomavirus; forensic; environmental monitoring; food industry; feed industry; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                   present invention describes a method (M1) for designing capture
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  67.8%; Score 12.2; DB 24; 64.7%; Pred. No. 1.6e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Kliman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Capture oligonucleotide Zip ID#1028 oligo #2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 24 BP; 7 A; 7 C; 5 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ď
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2 AUGGCCUAUCGGUGCGA 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABI84453 standard; DNA; 24 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (CORR ) CORNELL RES FOUND INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           04-APR-2001; 2001WO-US10958.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         14-APR-2000; 2000US-197271P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Zirvi M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2002-034366/04.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO200179548-A2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            25-OCT-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Barany F,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABI84453;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
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Example 5; Fig 25; 300pp; English

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                                                                                                                                                                                                                                                                                                                                                                                particular sites and identifying if ligation of the oligonucleotide probe sets occurred and correlating (using a computer) identified ligation to a presence or absence of the target nucleotide sequences. ABI82074 to ABI97546 represent oligonucleotide sequences used in the exemplification
                                 oligonucleotide probes (I) for use on a support to which complementary oligonucleotide probes (II) will hybridise with little mismatch, where (I) have melting temperatures within a narrow range. The method is useful for detecting infectious diseases caused by bacterial infectious agents e.g. Salmonella, Listeria monocytogenes and Haemophilus influenza, fungal infectious agents e.g. Cryptococcus neoformans, Candida albicans and
                                                                                                                                                                                                                                         Detecting cancer involving oncogenes, tumour suppressor genes, or genes involved in DNA amplification, replication, recombination or repair, the cancer is specifically associated with a gene selected from BRCAI gene, p53 gene, human papiliomavirus types 16 and 18 and 11ver cancers. The method is also used for environmental monitoring, forensics and the food and feed industry, detecting comprises scanning (using e.g. a scanning electron microscope and infrared microscope) the support at the
                                                                                                                                              Aspergillus fumigautus, viruses e.g. T-cell lymphocytotrophis cirus, Epstein-Barr virus and polio virus, and parasitic infectious agents eslected from Onchoverva volvulus, Entanoeba histolytica and Dracunculus medinesis. The method is also useful for detecting genetic diseases such as 21 hydroxylase deficiency, Turner Syndrome and obesity defects.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present sequence represents a PCR primer used to amplify Pseudomonas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human pathogen; virulence polypeptide; virulence factor;
pathogenic infection; Pseudomonas aeruginosa infection; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                     present invention describes a method (M1) for designing capture
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ŝ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PCR primer used to amplify a 1659 bp fragment containing ORF1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mahajan-Miklos
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Virulence factors useful in developing disease treatments
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        67.8%; Score 12.2; DB 24;
64.7%; Pred. No. 1.6e+03;
Live 3; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Goodman HM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 24 BP; 5 A; 5 C; 7 G; 7 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 26; 228pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cao H, Drenkard E,
Tan M, Tsongalis J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2 AUGGCCUAUCGGUGCGA 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ~
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATGACCAATCGATGCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAX98255 standard; DNA; 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pseudomonas aeruginosa.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1999-357851/30.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity
nes 11; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    25-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25-NOV-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25-0CT-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rahme LG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAX98255;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ligand; peripheral blood mononuclear cell; fibrin clot; carotid artery; systematic evolution of ligands by exponential enrichment method; PBMC; epitope; macromolecule; tissue SELEX method; cancer screening; therapy; AIDS monitoring; localisation of thrombi; atherosclerosis; ss.
aeruginosa nucleic acid sequences, in the course of the invention. P. aeruginosa is an opportunistic human pathogen present in soil water and plants. The specification describes virulence polypeptides and nucleic acid sequence encoding such polypeptides. These sequences can be used to identify a compound which is capable of decreasing the expression of a pathogenic virulence factor. Compounds that inhibit the expression or activity of virulence factor polypeptides can be used to treat pathogenic infections, especially where the infection is a P. aeruginosa infection.
                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nucleic acid ligands used in cancer screening, AIDS monitoring etc. - bind to peripheral blood mononuclear cells, fibrin clots or
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0
                                                                                                                                                                                                Score 12.2; DB 20; Length 29;
Pred. No. 1.7e+03;
3; Mismatches 3; Indels
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/*tag= b
/mod_base= all U's are 2-fluorine-U
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /mod_base= all C's are 2-fluorine-C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Stephens A;
                                                                                                                                                                   Sequence 29 BP; 6 A; 10 C; 8 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Stenotic carotid artery binding ligand Civ19.
                                                                                                                                                                                                                Pred. No. 1.7e
3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 23; Page 58; 138pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Speck U,
                                                                                                                                                                                                                                                                                                                                                                                AAT70787 standard; RNA; 40 BP
                                                                                                                                                                                                                                                                1 AAUGGCCUAUCGGUGCG 17
                                                                                                                                                                                                   67.88;
64.78;
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                                                                                                                                                                                                                                                                                 19 AACGGCGTATCGTTGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                               30-JUL-1997 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (NEXS-) NEXSTAR PHARM INC. (SCHD ) SCHERING AG.
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                                                                                                                                                                                                                                   11; Conservative
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/*tag=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1996-506091/50.
                                                                                                                                                                                                                Best Local Similarity
Matches 11; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  carotid arteries
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                                                                                                                                                                                                   Query Match
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                                                                                                                                                                                                                                                                                                                                                RESULT 14
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from peripheral blood mononuciear cells (PBMC'S) (such as the ligands represented by AA770584-T70516), fibrin clots (such as the ligands represented by AA770514-T70704), and carotid arteries (such as these ligands). The method comprises preparing a candidate mixture of NA sequences, and contacting these with the tissue, whereby NAs having an increased affinity to the tissue relative to the candidate mixture may be partitioned from the remainder of the candidate mixture. The increased affinity NAs are then partitioned from the remainder of the candidate mixture, and are amplified to yield a mixture of NAs enriched for NA sequences with a relatively higher affinity and specificity for binding to the tissue, whereby NA ligands of the tissue may be identified. The method represents a tissue SELEX (systematic evolution of ligands by exponential enrichment) method. The NA ligands and epitopes and macromolecules identified using the ligands can be used in diagnostic
                                                                                                                                                                                                                                                                                     and therapeutic applications. In particular, they can be used for e.g. cancer screening, AIDS monitoring, detection and localisation of thrombi or atherosclerosis diagnosis and therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A single-stranded DNA (or its complementary strand or the corresp. double-stranded DNA) which comprises one of the 7837 "GS" sequences given in AAT19001-T26837 and which is able to hybridise to part of human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature) sequences were obtained from 3 '-directed cDNA libraries prepared from various human tissues; synthesis of cDNA was initiated from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      frequency;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gene signature; messenger RNA; mRNA; relative abundance; frequency human; cloning; mapping; non-biased library; diagnosis; detection; cell typing; abnormal cell function; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                   Length 40;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 67.8%; Score 12.2; DB 17; Best Local Similarity 64.7%; Pred. No. 1.8e+03; Matches 11; Conservative 3; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                                                       Sequence 40 BP; 9 A; 13 C; 8 G; 10 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAT21824 standard; cDNA to mRNA; 53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 1; Page 975; 2245pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human gene signature HUMGS03315.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2 AUGGCCUAUCGGUGCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21 AAGGCCTTTCGGTCCGA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1995-206931/27.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-JUN-1995.
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3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-untranslated sequence is unique to a particular mRNA species, almost all the 3'-oriented coNAs hybridise with specific mRNAs. Each library is constructed so as to reflect accurately the relative abundance of different mRNAs in the particular tissue from which it was derived frequency of a given GS in a cDNA library can be determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types.
                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                     Ouery Match 67.8%; Score 12.2; DB 16; Length 53; Best Local Similarity 64.7%; Pred. No. 1.8e+03; Matches 11; Conservative 3; Mismatches 3; Indels (
                                                                                                                                                                                                                                                           Sequence 53 BP; 14 A; 11 C; 12 G; 15 T; 1 other;
                                                                                                                                                                                                                                                                                                                                                                                                               1 AAUGGCCUAUCGGUGCG 17
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Search completed: July 6, 2003, 14:32:53 Job time: 194.091 secs

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AZ800642 2M0058G16 AA863171 0991e02.s AZ840293 2M0136H17 AZ605771 1M0427K13 AA931624 0035b08.s

AZ317769 1M0036002 BH618002 SALK\_0383

AA721034 nx89h04:s BH641243 1008046b0 AL495613 T. brucei AL21514 4987c10.x BJ066180 BJ066180 BH252563 SALK\_C0135 AL479456 T. brucei AL79456 T. brucei AL79456 T. brucei AL8358 T. AUG619.x AZ511081 1M0355020 AA455514 zx77901.s AU102871 AU102871

AZ777046 2M0011M08.
BH810903 SALK 0566
H42612 yp130408.r1
BH256481 KG03591-5
AQ025667 1(2)08717
AA48673 xx91e11.s

AI192963 qe68h01.x

AL47453 T. brucel BH751662 SALK\_0504 BH751810 SALK\_0506 BH611852 SALK\_0317 BH6118406 SALK\_0310 BH611843 SALK\_0390 BH611858 SALK\_0390 BH751595 SALK\_0503 BH751595 SALK\_0503

to give a tight size distribution (
4 kb). The v + i method used for the library construction is described in detail in Smith, H. and Venter, J.C. (Making small insert libraries for whole genome shotgun sequencing projects. In Genome Sequencing: A Practical Approach, eds. M. Vaudin and B.

AL455710 T. brucei AU183461 AU183461 H13124 yj06d12.r1 C00960 HUMGS000331 AU105634 AU105634 AV847604 AV847604

TA58C07Q AU183461

H13124 C00960 AU105634 AV847604

17 14 10 10

49 37 50 50 56

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13.8 12.2 112.2 11.8

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Score

Result Š.

Perfect score:

Sednence:

OM nucleic

Run on:

Scoring table:

Searched:

Minimum DB Maximum DB

Database

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Trypanosoma.

If (bases 1 to 49)

Hall, N. Bowman, S., Lennard, N.J., Doggett, J., Atkin, R.,
Chillingworth, C., Ormond, D., Harris, B., El-Sayed, N., Hou, L.,
Melville, S.E., Rajandream, M.A. and Barrell, B.G.
Direct Submission

Submitted (10-DEC-2000) Trypanosoma brucel genome sequencing
project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton,
Cambridge CBIO 1SA, E-mail: barrell@sanger.ac.uk and
nhl@sanger.ac.uk
Constructed at the Institute for Genomic Research (TIGR),
Rockville, MD. Genomic DNA isolated from a cloned population of
Trypanosoma brucel (TRE0927) 4 GUTAt 10.1) was mechanically sheared
                                                                                                                                                                                                                                                                                                                                                                                                                                                   58C07Q 49 bp DNA linear GSS 13-D brucei sheared genomic DNA clone 58C07, reverse sequence,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Trypanosoma brucei
Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;
                                                                                                                                                                                                                                                                                                                                                                                                    ALIGNMENTS
                                                                                            A1221514
BJ066180
BH252563
A1953654
AL758565
TA208E12P
                                                                           BH641243
TA371C10P
                                                                                                                                                                                                                                                                                            7A100
                            AZ605771
AA931624
AZ317769
BH618002
AA721034
                                                                                                                                                               AI613042
AZ511081
AZ499581
AA455514
AU102871
AZ777046
BH810903
                                                                                                                                                                                                                                                      AQ025667
AA485733
BF026570
AI192963
TA177A10Q
                                                                                                                                                                                                                                                                                                     BH751662
BH751810
BH611852
BH618406
                                                                                                                                                                                                                                                                                                                                                    BH618558
BH751595
BI838507
                  AZ840293
                                                                                                                                                                                                                                             BH256481
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ĀL455710.1 GI:11857988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        genomic survey sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Trypanosoma brucei.
TA58C07Q
                                                                                                      DEFINITION
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
VERSION
KEYWORDS
SOURCE
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JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 1
TA58C07Q
LOCUS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMMENT
6, 2003, 14:26:51 ; Search time 1209.27 Seconds
    (without alignments)
241.069 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Description
      GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                        Potal number of hits satisfying chosen parameters:
                                                                                                                                                                       16154066 seqs, 8097743376 residues
                                             - nucleic search, using sw model
                                                                                                                                                                                                                                                              summaries
                                                                                                                                           IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                        1 aauggccuaucggugcga 18
                                                                                                                                                                                                                                         Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 su
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gb_est4:*
gb_est5:*
em_estfun:*
em_estfun:*
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em_gss_pln:*
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em_gss_mus:*
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18
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Match Length
                                                                                                                                                                                                             seq length: 0 seq length: 60
                                                                                                                                                                                                                                                                                EST:*
                                                                July
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EST 27-JUN-1995

BASE COUNT ORIGIN

FEATURES

AU183461/c DEFINITION

δλ 셤 ORGANISM

ACCESSION

VERSION KEYWORDS SOURCE

REFERENCE AUTHORS TITLE

MEDLINE

COMMENT

FEATURES

JOURNAL

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/clone="INAGE:147959"
/clone="INAGE:147959"
/clone="INAGE:147959"
/clone="Inb="Soares placenta Nb2HP"
/sex="Female"
/dev_stage="placenta obtained at birth (full term)"
/lab_host="DH10B (ampicillin resistant)"
/lab_host="DH10B (ampicillin resistant)
/lab_host="DH30B (ampicillin resistan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mammalia is substituted in trimsters, cacatifier, communication is substituted in the mammaliant is solutionally to the manner of the manner o
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                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
         H13124

y106012.r.1 Soares placenta ND2HP Homo sapiens cDNA clone IMAGE:147959 5' similar to gb:U03486_cds1 GAP JUNCTION ALPHA-5
PROTEIN (HUMAN);, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     went through one round of normalization. Library constructed by Bento Soares and M.Fatima Bonaldo 8 c 11 g 6 t 2 others
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 37;
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Pred. No. 4.3e+04;
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/db_xref="GDB:559671"
/db_xref="taxon:9606"
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21 ATGACCTATCCGTGTGA 37
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58.8%;
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H13124.1 GI:877944
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Best Local Similarity 58.8
Matches 10; Conservative
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VERSION
KEYWORDS
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C00960/c
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KEYWORDS
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Barrell, Oxford University Press, 1999).
Email: nelsayed@tigr.org
Details of T. brucei sequencing at the Sanger Centre are available at http://www.sanger.ac.uk/Projects/T_brucei/.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     50 bp mRNA linear EST 30-JUL-200 mRNA linear EST 30-JUL-200 mRNA lipo-polysaccharide and concanavalin-A Cyprinus carpio cDNA clone H119, mRNA sequence.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Contact: Masahiro Sakai
Faculty of Agriculture
Miyazaki University
Il 1 nishi gatec: Miyazaki, Miyazaki, Miyazaki 889-2192, Japan
Email: m.sakai@cc.miyazaki.u.ac.jp.
Location/Qualifiers
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Pred. No. 3.7e+04;
2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 13.8; DB 17;
Pred. No. 7.7e+03;
                                                                                                                                                                                                                                                                         /organism="Trypanosoma brucei"
/strain="TRED197" .
/db_xref="taxon:5691"
/clone="58c07"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9
t

    .50
    /organism="Cyprinus carpio"
    /db_xref="taxon:7962"
    /clone="H119"

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70.68;
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78.6%;
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Best Local Similarity 70.6
Matches 12; Conservative
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Best Local s
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Gaps

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BASE COUNT ORIGIN

Matches

RESULT 3 H13124

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/dev_stage="larva"
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AV847604.1 GI:16828139
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                                                                                                                                                                                                                                                                                 65.68;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Unpublished (2000)
Contact: Nori Satch
Department of Zoology
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Ciona intestinalis
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Best Local Similarity
Matches 10; Conserv
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VERSION
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AUTHORS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Monocytes were prepared from blood by ficoll-hypaque, Monocytes were prepared from blood by ficoll-hypaque, Monocytes were prepared from blood by ficoll-hypaque, percoll and T cell rosetting purification steps (purity: 96 %). mRNA was prepared from activated monocytes from a patient with rheumatoid arthritis. mRNA was reverse transcribed with MuLV. Using Eco-RI linkers cDNA was cloned into l-gt-11 vector arms. The cDNA library was screened by differential hybidization using radioactively marked ss-cDNA from activated and non-activated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens

Bukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 50)

Suzuk,Y., Taira, H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki,Y., Nakamura,Y., Suyama,A. and Sugano,S.

Diverse transcriptional initiation revealed by fine, large-scale
                                                                                                                                                                                                                 1-3, Yamada-OKA, Suita, Osaka Pref. 565, Japan
Tel: 06-877-5111(ex.3315)
Bmall: kousaku@imcb.osaka-u.ac.jp
Bmall: kousaku@imcb.osaka-u.ac.jp
Human Gene Signature, 3'-directed cDNA sequence. We are not
submitting the same cDNA sequence redundantly to DDBJ since 1993.
For the abundance information of clones with this sequence in this
library and as well as in other 3'-directed libraries, see '
http://www.incb.osaka-u.ac.jp/bodymap'. The sequences of the clones
represented by this GS sequences is also found there.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AU105634 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone KAT08740, mRNA sequence.
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                                         Chordata; Craniata; Vertebrata; Euteleostomi; Primates; Catarrhini; Hominidae; Homo.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 others
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/clone_lib="Human adult (K.Okubo)"
/dev_stage="adult"
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                                                                                                                                                                              Institute for Molecular and Cellular Biol
Osaka University
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Pred. No. 4.6e+04;
3; Mismatches 3;
                                                                                              Okubo,K.
BodyMap; human gene expression database
Unpublished (1995)
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EMBO Rep. 2 (5), 388-393 (2001)
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                                       Eukaryota; Metazoa;
Mammalia; Eutheria;
1 (bases 1 to 50)
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                                                                                                                                                              Contact: Okubo, K
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Best Local Similarity
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AUTHORS
TITLE
JOURNAL
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AU105634
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SOURCE
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AV847604 Nori Satch unpublished cDNA library, larva Ciona intestinalis cDNA clone rcilv08b14 3', mRNA sequence.
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Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
,S. Construction and characterization of a full length-enriched and
a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
Location/Qualifiers
1. .50
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                                                                                                                                                                                     /clone_lib="Sugano Homo sapiens cDNA library"
/clone_lib="Sugano Homo sapiens comparison of untreated and
dimethyliumarate treated U937 cells"
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                                                                                                                                                                                                                                                                                                                                          Score 11.8; DB 9; I
Pred. No. 7.2e+04;
3; Mismatches 2;
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Pred. No. 7.4e+04;
2; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Email: satoh@ascidian.zool.kyoto-u.ac.jp.
Location/Qualifiers

    .56
    /organism="Ciona intestinalis"
/db_xref="taxon:7719"

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sakyo-ku, Kyoto, Kyoto 606-8502, Japan
Tel: 81-75-753-4081
Fax: 81-75-705-1113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Phlebobranchia; Cionidae; Ciona.
1 (bases 1 to 56)
2 to 56)
2 to 56)
Expressed genes in Ciona intestinalis
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/clone_lib="Nori Satoh unpul
/tissue_type="whole animal"
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11 c 18 g 15 t
                                                                                                                       /organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="KAT08740"
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ORGANISM

SOURCE

REFERENCE AUTHORS

VERSION KEYWORDS

JOURNAL COMMENT

TITLE

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CDNA Library Preparation: M. Bento Soares, Ph.D. CDNA Library Arrayed by: Greg Lennon, Ph.D. DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AZ840293 30 bp DNA linear GSS 20-FEB-2001 2M0136H17R Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC2M0136H17 R, DNA sequence.
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Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.
                                                                            Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                      1 (bases 1 to 55)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                  Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael
Emmert-Buck, M.D., Ph.D.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /db_xref="taxon:9606"
/clone="IMAGE:1455674"
/clone=1b="NoT_GAAP_Kid5"
/tissue_type="2 pooled tumors (clear cell type)"
/lab_host="DH108"
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Pred. No. 9.2e+04;
2; Mismatches 4; Indels
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Insert Length: 360 Std Error: 0.00
Seg primer: -40m13 fwd. ET from Amersham
High quality sequence stop: 1.
Location/Qualifiers
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                                                                                                                                                                                                                                        Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /organism="Homo sapiens"
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AA863171.1 GI:2955650
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66.78;
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AUTHORS
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TITLE
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KEYWORDS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (http://www.fax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymerase are the polymerase are seen adaptored Unit and a size selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pw042 (gil4732114)pb/AR129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
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Unun,D., Aoyadi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
AM., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
                                                                                                                                Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
                                                                            Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson
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/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UGC2M0058G16"
/clone_lib="Mouse 10kb plasmid UUGCIM library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 11.6; DB 17; Length 29; Pred. No. 7.8e+04;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
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; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Plate: 0058 row: G column: 16
Seq primer: CACACAGGAAACAGCTATGACC
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                           University of Utah Genome Center
University of Utah
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             High quality sequence stop: 29
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AZ800642.1 GI:12952965
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61.1%;
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                                                                                                                                                                                                                                                                                                                                          Unpublished (2000)
Contact: Robert B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local Similarity
Matches 11; Conserv
                                                      house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           84112, USA
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FEATURES

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Gaps

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DEFINITION

AA863171 RESULT 8

ACCESSION

BASE COUNT

ORIGIN

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electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gil4732114|gb|RF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AA931624 37 bp mRNA linear EST 24-APR-1998 0035b08.sl NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1568151 3' similar to SW:IBA2_HUMAN Q14657 ITBA2_PROTEIN ;, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 37)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson
                                                                                                                                        S. 2030 E., SLC,
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National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /strain="C57BL/65"
/db_xref="taxon:10090"
/clone="UUGC1M0427k13"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 36;
                                                   62.2%; Score 11.2; DB 17;
56.2%; Pred. No. 1.3e+05;
iive 4; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                                                 Plate: 0427 row: K column: 13
Seq primer: CGTTGTAAAACGACGGCCAGT
Class: plasmid ends

    .36
    /organism="Mus musculus"

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                                                                                                                                                                                                                                                                                                                                                                                   High quality sequence stop: 36.
                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
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AA931624.1 GI:3086010
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Unpublished (1997)
        plasmid inserts
Unpublished (2000)
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Best Local Similarity
Matches 9; Conserv
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TITLE
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SOURCE
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Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Slam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly
M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.
and Wright, D., Weiss, R.
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                                           Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 108. Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC,
84112, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /lab_host="E. Coli strain XLIO-Gold, Tl-resistant, F-" /note="Vector: PW042nv; Purified genomic DNA from M. musculus G7BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mouse whole genome scaffolding with paired end reads from 10kb
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0
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/db_xref="taxon:10090"
/clone="UUGC2M0136H17"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     62.2%; Score 11.2; DB 17; Length 30; 62.5%; Pred. No. 1.2e+05; Live 3; Mismatches 3; Indels
                                                                                                                                                                                                                                           Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
                                                                                                                                                                                                                                                                Insert Length: 10000 Std Error: (Plate: 0136 row: H column: 17 Seq primer: CACACAGGAAACAGCTATGACC Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism="Mus musculus"
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Location/Qualifiers
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plasmid inserts
Unpublished (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity 62.5
Matches 10; Conservative
                                                                                                                                                                                       Tel: 801 585 5606
Fax: 801 585 7177
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                                                                                                                                                                                                                                                                                                                                                                                                                              /tissue_type="carcinoid"
/lab_host="DH10B"
/not="Organ: lung; Vector: pT773D-Pac (Pharmacia) with a modified polylinker; lst strand cDNA was prepared from neuroendocrine lung carcinoid, and was then primed with a Not I - oligo(dT) primer. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT773 vector. Library is normalized. Library was constructed by Bento Soares and M. Fatima Bonaldo."
                                                                                                                     Sequencing Center
information can be
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 45)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  45 bp DNA linear GSS 29-SEP-200 IM0036002R Mouse 10kb plasmid UUGCIM library Mus musculus genomic aZ317769
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
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Unpulshed (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Blomedical Polymers Research Bldg., 20 S. 2030
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                                                                 CDNA Library Preparation: M. Bento Soares, Ph.D. CDNA Library Arrayed by: Greg Lennon, Ph.D. DNA Sequencing by: Washington University Genome Clone distribution: NCI-CGAP clone distribution found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html
                                                                                                                                                                                                                             Trace considered overall poor quality
Seq primer: -40ml3 fwd. ET from Amersham
High quality sequence stop: 1.
Location/Qualifiers
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Insert Length: 10000 Std Error: 0.00
Plate: 0036 Low: O column: 02
Seq primer: CACACAGGAAACAGCTATGACC
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                         /clone="IMAGE:1568151"
/clone_lib="NCI_CGAP_Lu5"
                                                                                                                                                                                                                                                                                                                                            /organism="Homo sapiens"
/db_xref="taxon:9606"
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Best Local Similarity 56.28
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Fax: 801 585 7177
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(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar exces. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pwaled (gilf) 14732114 (gbh.Rr129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. Coli Xil0-Gold (Stratagene) cells and selected for ampicillin resistance."
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BH618002
BH618002.1 GI:18428097
GSS.
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                                                                                                                                                                                                                                                             /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                     /lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
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                                                                                                                                                                                    /clone_lib="Mouse 10kb plasmid UUGC1M library"
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Unpublished (2001)
Contact: Joseph R. Ecker
Salk Institute Genomic Analysis Laboratory (SIGNAL)
The Salk Institute for Biological Studies
10010 N. Torrey Pines Road, La Jolla, CA 92037, USA
TH: 858 453 4100 x1752
Fax: 858 558 6379
                                                                                /organism="Mus musculus"
                                                                                                                                 /db_xref="taxon:10090"
High quality sequence stop: 45.
Location/Qualifiers
                                                                                                                                                            /clone="UUGC1M0036002"
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                                                                                                         /strain="C57BL/6J
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37 AATGCTCTATCGATGC 22
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Best Local Similarity 68.8
Matches 11; Conservative
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             /strain="Columbia 0" Continued (Abrace="Laxon:3702" (Abrace="Laxon:3702" (Clone="SALK_0)8348" (Clone="SALK_0)8348" (Abrace="SALK_0)8348" (Abrace="FCR was performed on Arabidopsis thaliana lines each of Which contains one or more TDNA insertion elements. The resultant fragment for each line was directly sequenced to determine the genomic sequence at the site of insertion. Details of the protocols used can be found at http://signal.salk.edu/tdna_protocols.html"
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52 bp mRNA linear EST 22-JAN-1998
nx89h04.sl NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1269463 3'
similar to WP:F56bl.3 CE01971 ;, mRNA sequence.
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NCI-GAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (GGAP),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Louis M. Staudt, M.D., Ph.D., David Allman,
                                                                                                                                                                                                                                                                                                              Gaps
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CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima
Bonaldo, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
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                                                                                                                                                                                                                                                                    Score 11.2; DB 17; Length 51;
Pred. No. 1.4e+05;
4; Mismatches 3; Indels
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/lab_host="DH10B"
'Organism="Arabidopsis thaliana"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  www-bio.llni.gov/bbrp/image/image.html
Insert Length: 730 Std Error: 0.00
Seq primer: -40ml3 fwd. Er from Amersham
High quality sequence stop: 1.
Location/Qualifiers
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/clone_lib="NCI_CGAP_GCB1"
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/db_xref="taxon:9606"
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56.2%;
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Unpublished (1997)
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KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                AA721034
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COMMENT

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/cultivar="mixed background W23/A188/B73"
/cultivar="mixed background W23/A188/B73"
/clone_lib="loo8 - RescueMu Grid I"
/clone_lib="loo8 - RescueMu Grid I"
/tisue_type="loaf"
/dev_stage="adult"
/dev_stage="adult"
/dev_stage="adult"
/dev_bost="DH108"
/note="Organ: leaf; Vector: RescueMu (engineered from PblueScript backbone); Site_l: BamHi; Site_2: B9lIi;
RescueMu is a 4.9 kb, modified maize Mu transposon designed to allow plasmid rescue from total genomic DNA.
Mu elements insert preferentially into transcription units. For more information on RescueMu, go to the web site www.zmdb.lastate.edu and follow the links for 'RescueMu.' Grid I was grown at Berkeley in 2001. DNA was extracted from leaf punches, double digested using BamHI and BglII, and ligated to form circular plasmids. DH10B cells were transformed and then screened on LB plates with
                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BH641243 54 bp DNA linear GSS 14-FEB-2002 1008046D05.2EL_y1 1008 - RescueMu Grid I Zea mays genomic, DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Spermatophyta; Tracheophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACC clade; Panicoideae; Andropogoneae; Zea.
1 (bases 1 to 54)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Maize genomic sequences found using engineered RescueMu transposon
Unpublished (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Possible ligation site of ends cut by 2 different endonucleases. Reverse complemented post-ligation sequence from source sequence. Plate: 1008046 row: 17
                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
went through one round of normalization, and was constructed by Bento Soares and M. Fatima Bonaldo." 12 c 21\ g 7 t
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                                                                                                                                                Length 52;
                                                                                                                                                                                                      Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                855 California Ave, Palo Alto, CA 94304, USA
Tel: 650 723 2227
Fax: 650 725 8221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 11.2; DB 17;
Pred. No. 1.4e+05;
2; Mismatches 3;
                                                                                                                                          62.2%; Score 11.2; DB 9;
68.8%; Pred. No. 1.4e+05;
Live 2; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            13 t
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
1. .54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism="Zea mays"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Email: walbot@stanford.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Class: transposon-tagged
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GI:18668929
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Search completed: July 6, 2003, 15:28:29 Job time: 1212.27 secs

us-09-780-929-98.szlm60.rni

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635134
GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                           Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                 441362 seqs, 153338381 residues
                                                                                                                                                                                                                                                                                                                                                                                   Listing first 45 summaries
                                                         - nucleic search, using sw model
                                                                                                                                            US-09-780-929-98
18
1 aauggccuaucggugcga 18
                                                                                                                                                                                                     IDENTITY_NUC Gapox 1.0
                                                                                                                                                                                                                                                                                                                                                     Post-processing: Minimum Match 0% Maximum Match 100%
                                                                                                                                                                                                                                                                                                         Minimum DB seq length: 0
Maximum DB seq length: 60
                                                                                   July
                                                                                                                                            Title:
Perfect score:
Sequence:
                                                                                                                                                                                                     Scoring table:
                                                       OM nucleic
                                                                                                                                                                                                                                                Searched:
                                                                                    Run on:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq:\*
4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq:\*
5: /cgn2\_6/ptodata/1/ina/pcTUS\_COMB.seq:\*
6: /cgn2\_6/ptodata/1/ina/pcTus\_comB.seq:\*

Database :

## SUMMARIES

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Result	Ţ		Ouery				
S.		Score	Match	Length	Ba	OI.	Description
O		12.2	8. 79	8 29	4	US-09-199-637A-144	Sequence 144, App
	C)	11.8	65.6	30	7	US-07-997-133-5	5,
	٣	11.8	65.6	30	ស	US-07-997-133-5	5
	4	11.8	65.6	5 40	4	US-09-626-929-3	m
	Ŋ	11.8	65.6	5 40	4	US-09-484-850-3	m
	ဖ	. 11.8	65.6	5 40	4	US-09-408-392-3	'n
	7	11.8	65.6	5 40	4	US-09-626-930-3	3,
	œ	11.8	9.59	5 40	4	US-09-626-528-3	ω,
	6	11.6	64.4	~	٦	US-08-054-480-5	J.
o	2	11.6	64.4	1 29	П	US-08-413-803-10	10,
ပ	Ξ	11.6	64.4	4 29	П	US-08-321-488A-10	10,
υ		11.6	64.4		S	PCT-US95-03776-10	10,
U	13	11.6	64.4		Н	US-08-413-803-9	, 6
Ü	14	11.6	64.4	30	-	US-08-321-488A-9	6
o	15	11.6	64.4	30	7	US-08-943-915-14	14
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υ	18	11.6	64.4	30	4	US-08-336-728A-36	36,
υ	19	11.6	64.4	30	Ŋ	PCT-US95-03776-9	9, A
. •	20	11.6	64.	4 41	7	US-08-781-620B-10	10,
υ	23	11.6	64.4	4	~	US-08-520-678A-15	15,
v	22	11.6	64.4	4	4	US-08-897-126-15	15,
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	24	11.4	63.3	<del>-</del>	~	US-08-292-620A-1977	Sequence 1977, Ap
	25	11.4	63	3 17	m	US-09-071-845-1886	Sequence 1886, Ap
	56	11.4	63.	3 17	m	US-09-071-845-1977	Sequence 1977, Ap
•	27	11.4	63	3 21	4	US-08-397-220B-24	24, Ap

Sequence 24, Appl Sequence 35, Appl Sequence 35, Appl Sequence 35, Appl Sequence 35, Appl Sequence 35, Appl Sequence 1095, Appl Sequence 1095, Appl Sequence 11, Appl Sequence 11, Appl Sequence 11, Appl Sequence 11, Appl Sequence 11, Appl Sequence 75, Appl Sequence 75, Appl Sequence 75, Appl	ACID Length 29; Indels 0; Gaps 0;	
21 4 US-08-650-093C-24 22 3 US-09-150-133-35 25 3 US-09-150-133-35 25 4 US-09-374-403-35 25 4 US-09-374-403-35 25 4 US-09-374-403-35 25 4 US-09-374-402-35 26 4 US-09-374-402-35 27 4 US-09-374-402-35 28 4 US-09-374-402-35 29 4 US-09-374-688-1095 20 5 US-08-918-31 20 5 US-08-918-31 20 6 US-08-918-31 20 7 US-08-918-31 20 7 US-08-9146-631-11 20 7 US-08-105-697-11	NUCLEIC HEREOF  A  A  A  C  C  C  C  C  C  C  C  C  C	3 lar Form of the Growth Factor
28 111.4 63.3 31.1 11.4 63.3 3.3 11.4 63.3 3.3 11.4 63.3 3.3 11.4 63.3 3.3 11.4 63.3 3.4 11.2 62.2 2.2 2.3 11.2 62.2 2.4 2.4 11.2 62.2 2.4 4.3 11.2 62.2 2.4 4.3 11.2 62.2 4.4 11.2 62.2	RESULT 1  US-09-199-637A-144/C  Sequence 144, Application US/09199637A  Patent No. 635541  GENERAL INFORMATION: APPLICANT: Ausubel, Frederick APPLICANT: Rahme, Laurence G. APPLICANT: Rahme, Laurence G. APPLICANT: Tan, Man-Wah APPLICANT: BENERICE: 00786/361002  CURRENT APPLICATION NUMBER: US/09/199,637, CURRENT FILING DATE: 1998-11-25  NUMBER OF SEQ ID NOS: 437  SEQ ID NO 144  LENGTH: 29  ULENGTH: 29  TYPE: DNA ORGANISM: Perdomonas aeruginosa US-09-199-637A-144  QUELY MATCH BEST LOCAL Similarity 64.7%; Pred. No. Matches 11; Conservative 3; Mismatc	Oy 1 AAUGGCCUAUCGGUGCG 17

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APPLICANT: NESS, JON E.
APPLICANT: GUSTAFSSON, CLAES
APPLICANT: PATTEN, PHILLIP A.
TITLE OF INVENTION: OLIGONUCLEOTIDE MEDIATED NUCLEIC ACID RECOMBINATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OTHER INFORMATION: Description of Artificial Sequence: Bridging OTHER INFORMATION: oligonucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 40;
                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               65.6%; Score 11.8; DB 4;
60.0%; Pred. No. 4.6e+02;
iive 4; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 11.8; DB 5;
Pred. No. 4.4e+02;
2; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILE REFERENCE: 02-029620US
COURRENT APPLICATION NUMBER: US/09/626,929
2000-07-27
CURRENT FILING DATE: 2000-07-27
                                                                                                   NAME: Oblon, Norman F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 769-226-0
TELECOMMUNICATION:
TELECOMMUNICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: 09/408,392
PRIOR FILING DATE: 1999-09-28
PRIOR APPLICATION NUMBER: 60/118,813
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR FILING DATE: 1999-02-05
PRIOR APPLICATION WUMBER: 60/141,049
PRIOR FILING DATE: 1999-06-24
NUMBER OF SEQ ID NOS: 26
SOFTWARE: Patentin Ver. 2.1
SLENGTH: 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 3, Application US/09626929
Patent No. 6319714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
APPLICANT: CRAMBRI, ANDREAS
APPLICANT: STEMMER, WILLEM P.C.
APPLICANT: MINSHULL, JERENY
APPLICANT: BASS, STEVEN H.
APPLICANT: WELCH, MARK
                                                                                                                                                                                                                                                                                                                                                  TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                 65.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Artificial Sequence
                                                                                                                                                                                         TELERA: (703)400 TELERIS: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 5
SEQUENCE CHARACTERISTICS:
TENGTH: 30 base pairs
                                                     FILING DATE: 18-JAN-1991
ATTORNEY/AGENT INFORMATION:
NAME: Oblon, Norman F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | :||| :|:||:|
6 ACTGGCGTATCGGTG 20
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| ACGGCCTAGCGGTGC 15
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Best Local Similarity 73.3*
.....hes 11; Conservative
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Best Local Similarity 60.0%
                                                                                                                                                                                                                                                                                                               TYPE: nucleic acid
STRANDEDNESS: unknown
                                                                                                                                                                                                                                                                                                                                                                                               US-07-997-133-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-626-929-3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  65.6%; Score 11.8; DB 1; Length 30; 73.3%; Pred. No. 4.4e+02;
                                  OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, ADDRESSEE: P.C. STREET: 1755 Jefferson Davis Highway, Fourth Floor CITY: Arlington STATE: Virginia ZIP: 22202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Bergonzoni, Laura
APPLICANT: Mazue, Guy
APPLICANT: Isacchi, Antonella
APPLICANT: Ronucci, Romeo
APPLICANT: Sarmientos, Paolo
TITLE OF INVENTION: Extracellular Form of the Human
TITLE OF INVENTION: Fibroblast Growth Factor Receptor
...ukESSEE: P.C.
STREET: 1755 Jefferson Davis Highway, Fourth Floor STATE: Virginia
ZIP: 22202
                                                                                                                                                                                                                                      SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/997,133
FILING DATE: 28-DEC-1992
CLASSIFICATION: 530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIA Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2; Mismatches
                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA.

APPLICATION NUMBER: US/07/642,755
FILING DATE: 18-JAN-1991
ATONING DATE: 18-JAN-1991
ATONING PARE: 18-JAN-1991
NAME: Oblon, No. 528885man F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 769-226-0
TELECOMMUNICATION INFORMATION:
TELEBROOM (0)3521-4500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US/07/997,133
                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
CMCMOFTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 5, Application US/07997133 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEPHONE: (703)521-4500
TELERAX: (703)486-2347
TELEX: 24885 OPAT UR
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: 28-DEC-1992
CLASSIFICATION: 530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2 AUGGCCUAUCGGUGC 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 ACGCCTAGCGGTGC 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 73.38
Matches 11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: nucleic acid
STRANDEDNESS: unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30 base pairs
            CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES: ECORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 3
US-07-997-133-5
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à 셤 ö

Gaps

.; 0

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APPLICANT: CRAMERI, ANDREAS

APPLICANT: STEMMER, WILLEM P.C.
APPLICANT: STEMMER, WILLEM P.C.
APPLICANT: STEMMER, WILLEM P.C.
APPLICANT: MINSHOLL, JEREMY
APPLICANT: WESS, STEVEN H.
APPLICANT: WESS, JON E.
APPLICANT: WESS, JON E.
APPLICANT: PATTEN, PHILLIP A.
TITLE OF INVENTION: OLIGONICLEOTIDE MEDIATED NUCLEIC ACID RECOMBINATION
FILE REPERENCE: 02-02962008
CURRENT APPLICATION NUMBER: US/09/626,930
CURRENT FILING DATE: 1999-02-05
PRIOR APPLICATION NUMBER: 60/118,813
PRIOR APPLICATION NUMBER: 60/118,813
PRIOR APPLICATION NUMBER: 60/118,813
PRIOR PELLING DATE: 1999-02-05
PRIOR FILING DATE: 1999-06-24
NUMBER OF SEQ ID NOS: 26
SOFTWARE: PATENTIN VEY: 2.1
SEQ ID NO 3
LENGTH: 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: CRAMER, ANDREAS
APPLICANT: STEMMER, WILLEM P.C.
APPLICANT: MINSHULL, JEREMY
APPLICANT: BASS, STEVEN H.
APPLICANT: WELCH, MARK
APPLICANT: WELCH, MARK
APPLICANT: WELCH, MARK
APPLICANT: WELCH, MARK
APPLICANT: GUSTAESSON, CLAES
APPLICANT: PATTEN, PHILLIP A.
TITLE OF INVENTION: OLIGONUCLECTIDE MEDIATED NUCLEIC ACID RECOMBINATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OTHER INFORMATION: Description of Artificial Sequence: Bridging OTHER INFORMATION: oligonucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             65.6%; Score 11.8; DB 4; Length 40; 60.0%; Pred. No. 4.6e+02; Live 4; Mismatches 2; Indels
                                                                Length 40;
                                                             8; DB 4;
4.6e+02;
                                                        Score 11.8; DI
Pred. No. 4.6e-
4; Mismatches
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CURRENT FILING DATE: 2000-07-27
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PRIOR FILING DATE: 1999-09-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 3, Application US/09626528 Patent No. 6426224 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                       Sequence 3, Application US/09626930
Patent No. 6423542
                                                           65.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA
ORGANISM: Artificial Sequence
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                                                           Query Match
Best Local Similarity 60.03
Matches 9; Conservative
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Best Local Similarity 60.09
Matches 9; Conservative
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     US-09-408-392-3
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APPLICANT: STEMMER, WILLEM P.C.
APPLICANT: STEMMER, WILLEM P.C.
APPLICANT: BASS, STEVEN H.
APPLICANT: BASS, STEVEN H.
APPLICANT: WELCH, MARK
APPLICANT: WESS, JON E.
TAPLICANT: GUSTAFSSON, CLAES
APPLICANT: GUSTAFSSON, CLAES
APPLICANT: PATTEN, PHILLIP A.
TITLE OF INVENTION: OLIGONOCLEOTIDE MEDIATED NUCLEIC ACID RECOMBINATION
FILE REFERENCE: 02-029620US
CURRENT APPLICATION NUMBER: US/09/408,392
CURRENT FILING DATE: 1999-02-05
PRIOR PILLING DATE: 1999-02-05
PRIOR APPLICATION NUMBER: 60/118,813
PRIOR APPLICATION NUMBER: 60/114,049
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                                                                                               GENERAL INFORMATION:
APPLICANT: CRAMERI, ANDREAS
APPLICANT: STEMMER, WILLEM P.C.
APPLICANT: STEMMER, WILLEM P.C.
APPLICANT: STEMMER, WILLEM P.C.
APPLICANT: WELCH, MARK
APPLICANT: WELCH, MARK
APPLICANT: BASS, STEVEN H.
APPLICANT: WELCH, WARK
APPLICANT: OGSTAFSSON, CLAES
APPLICANT: OGSTAFSSON, CLAES
APPLICANT: OJOSPONUCLEOTIDE MEDIATED NUCLEIC ACID RECOMBINATION
FILLE REPERENCE: 02-026630US
CURRENT APPLICATION NUMBER: US/09/408,392
PRIOR FILING DATE: 1999-00-28
PRIOR FILING DATE: 1999-02-05
SPROR FILING DATE: 1999-06-24
NUMBER OF SEQ ID NOS: 26
SSETWARE: PATENTIN VOIL 2.1
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Patent No. 6376246
                                                     Sequence 3, Application US/09484850 Patent No. 6368861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         65.6%;
60.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: DNA ORGANISM: Artificial Sequence
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6 ACTGGCGTATCGGTG 20
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Best Local Similarity 60.0
Matches 9; Conservative
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NUMBER OF SEQ ID NOS: 26
SCOTWARE: Patentin Var. 2
SEQ ID NO 3
LENCTH: 40
RESULT 5
US-09-484-850-3
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US-09-408-392-3
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PROTEINS THAT STIMULATE MEGAKARYOCYTE
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                                                                                                                                                                                             APPLICANT: Bartley, Timothy D.
APPLICANT: Bogenberger, Jakob M.
APPLICANT: Boselman, Robert A.
APPLICANT: Moselman applicant: Kinstler, Olaf B.
APPLICANT: Samal, Babru B.
TITLE OF INVENTION: METHODS FOR TREATING MAMMALS WITH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: GROWTH AND DIFFERENTIATION NUMBER OF SEQUENCES: 34
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE: 31-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/252,628
FILING DATE: 31-MAY-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/321,488
FILING DATE: 12-CCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/321,780
FILING DATE: 30-NOY-1994
FILING DATE: 30-NOY-1994
ATTORNEY AGENT: INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/08/413,803
FILING DATE: 30-MAR-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 11
US-08-321-488A-10/c
; Sequence 10, Application US/08321488A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC COMPATIBLE OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                       3: AMGEN INC.
1840 DeHavilland Drive
                                                                                                                                      ; Sequence 10, Application US/08413803
; Patent No. 5766581
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                        NAME: COOK Ph.D., ROBERT R. REGISTRATION NUMBER: 31,602 REFERENCE/DOCKET NUMBER: A-
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MEDIUM TYPE: Floppy disk
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Best Local Similarity 66.7
Matches 12; Conservative
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nucleic acid
EDNESS: single
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US-08-413-803-10
                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
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ZIP: 91320-1789
                                                                                                                                                                                 GENERAL INFORMATION:
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                                                                                                   RESULT 10
US-08-413-803-10/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                            STREET:
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US-09-626-528-3
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                                                                                                                                                                                                                                                                                                 Length 40
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CITY: ARLINGTON
STATE: VIRGINIA
COUNTRY: USA
MPITE: 22201
MAITE, ZELANO, & BRANIGAN, P.C.
STATE: VIRGINIA
COUNTRY: USA
MPITE: 22201
MPITE: 22201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Goebel, Werner
APPLICANT: Libby, Stephen
APPLICANT: Heffron, Fred
TITLE OF INVENTION: CYTOLYSIN GENE AND GENE PRODUCT
NUMBER OF SEQUENCES: 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/054,480
FILING DATE: 04-APR-1993
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                               Score 11.8; DB 4;
Pred. No. 4.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                      4; Mismatches
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              PRIOR FILING DATE: 1999-02-05
PRIOR APPLICATION NUMBER: 60/141,049
PRIOR FILING DATE: 1999-06-24
NUMBER OF SEQ ID NOS: 26
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
PRIOR APPLICATION NUMBER: 60/118,813
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 5, Application US/08054480 Patent No. 5525504 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Heaney, Brion P.
REGISTRATION NUMBER: 32,542
REFERENCE/POCKET NUMBER: MERC
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703 243 6333
TELEFAX: 703 243 6410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5:
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66.78;
                                                                                                                                                      TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                             65.68;
60.08;
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ATTORNEY/AGENT INFORMATION:
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INFORMATION FOR SEQ ID NO:
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EDNESS: single
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Best Local Similarity
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Best Local Similarity
Matches 12; Conserva
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                                                                                                                                    LENGTH:
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GENERAL INCORMATION:
APPLICANT: Bartley, Timothy D.
APPLICANT: Borelerger, Jakob M.
APPLICANT: Boselman, Robert A.
APPLICANT: Boselman, Robert A.
APPLICANT: Bosselman, Robert A.
APPLICANT: Hunt, Pamela
APPLICANT: Kinstler, Olaf B.
APPLICANT: Kinstler, Olaf B.
APPLICANT: Samal, Babru B.
TITLE OF INVENTION: MONO-PEGYLATED PROTEINS THAT STIMULATE MEGAKARYOCYTE
TITLE OF INVENTION: GROWTH AND DIFFERENTIATION
NUMBER OF SEQUENCE: 34
CORRESPONDENCE ADDRESS:
ADDRESSEE: AMGEN INC.
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                                                                                                                                                                                                                                                                                                                                                                                                   Length 29;
                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/03776
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
FILLOATION NUMBER: US/08/413,803
FILLING DATE: 30-MAR-1995
                                                                                                                                                                                                                                                                                                                                                                                                   64.4%; Score 11.6; DB 5; 66.7%; Pred. No. 5.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                              2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 30 WAR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: US 08/221,768
FILING DATE: 31-MAR-1994
PRIOR APPLICATION NUMBER: US 08/252,628
FILING DATE: 31-MAY-1994
PRIOR APPLICATION NUMBER: US 08/321,488
FILING DATE: 12-OCT-1994
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     UMBER: US 08/347,780
30-NOV-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STREET: 1840 DeHavilland Drive CITY: Thousand Oaks STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 9, Application US/08413803
Patent No. 5766581
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 AAUGGCCUAUCGGUGCGA 18
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                                                                                                       CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: COOK, RODERT R.
REFERENCE/DOCKET NUMBER: A
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19 AAAGGCCTATCCGGCCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 30-NOV-1994 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                       Best_Local Similarity 66.79
Matches 12; Conservative
                                                                                                                                                                                                                                           LENGTH: 29 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: US
ZIP: 91320-1789
                                                                                                                                                                                                                                                                                                              TOPOLOGY: 11
MOLECULE TYPE:
                                                                                         FILING DATE:
                                                                                                                                                                                                                                                                                                                                                         PCT-US95-03776-10
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US-08-413-803-9/c
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                                                      APPLICANT: Bogenberger, Jakob M.
APPLICANT: Bosselman, Robert A.
APPLICANT: Hunt, Pamela
APPLICANT: Kinstler, Olaf B.
APPLICANT: Samal, Babru B.
TITLE OF INVENTION: MONO-PEGYLATED PROTEINS THAT STIMULATE
TITLE OF INVENTION: MEGAKARYOCYTE GROWTH AND DIFFERENTIATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 10, Application PC/TUS9503776
GENERAL INFORMATION:
APPLICANT:
APPLICANT:
TITLE OF INVENTION: Compositions and Methods for Stimulating
TITLE OF INVENTION: Megakaryocyte Growth and Differentiation
NUMBER OF SEQUEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           64.4%; Score 11.6; DB 1; Length 29; 66.7%; Pred. No. 5.8e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/321,488A FILING DATE: LOCT-1994 CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRODUCATION NUMBER: US 08/252,628
FILING DATE: 31-MAY-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/221,768
FILING DATE: 31-MAR-1994
ATTORNEY/AGENT INFORMATION:
NAME: COOK, ROBERT R.
REGISTRATION NUMBER: 31,602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE: Amgen Inc.
STREET: 1840 Dehavilland Drive
CITY: Thousand Oaks
STATE: California
                                                                                                                                                                                                                                                           E: AMGEN INC.
1840 DeHavilland Drive
           GENERAL INFORMATION:
APPLICANT: Bartley, Timothy D.
                                                                                                                                                                                                                                                                                                                                                            ZIP: 9120-1789
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity 66.7
Matches 12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 29 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
                                                                                                                                                                                                         NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                     CITY: Thousand Oaks
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MOLECULE TYPE: CDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                            OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 linear
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APPLICANT: Kinstler, Olaf B.
APPLICANT: Samal, Babru B.
TITLE OF INVENTION: MONO-PEGYLATED PROTEINS THAT STIMULATE
TITLE OF INVENTION: MEGAKARYCCYTE GROWTH AND DIFFERENTIATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  64.4%; Score 11.6; DB 1; Length 30; 66.7%; Pred. No. 5.8e+02; Live 2; Mismatches 4; Indels
                                                                                                                                                                                                               Length 30;
                                                                                                                                                                                                                                                      4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: DATEM: PC-DOS/NS-DOS
SOFTWARE: PATEM: PC-DOS/NS-DOS
SOFTWARE: PATEMIN Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/321,488A
FILING DATE: 12-OCT-1994
CLASSIFICATION DATA:
                                                                                                                                                                                                               Score 11.6; DB 1;
Pred. No. 5.8e+02;
                                                                                                                                                                                                                                                      2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US 08/252,628
FILING DATE: 31-MAY-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/221,768
FILING DATE: 31-MAR-1994
ATTORIEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STREET: 1840 DeHavilland Drive CITY: Thousand Oaks STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 9, Application US/08321488A Patent No. 5795569
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
APPLICANT: Bartley, Timothy D.
APPLICANT: Bogenberger, Jakob M.
APPLICANT: Bosselman, Robert A.
                                                                                                                                                                                                                                                                                               1 AAUGGCCUAUCGGUGCGA 18
                                                                                                                                                                                                                                                                                                                                         19 AAAGGCCTATCCGGCCGA 2
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INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
REFERENCE/DOCKET NUMBER: 1 INFORMATION FOR SEQ ID NO: 9: SEQUENCE CHARACTERISTICS: LENGTH: 30 base pairs TYPE: nucleic acid STRANDEDNESS: single
                                                                                                                                                                                                            Query Match 64.4%;
Best Local Similarity 66.7%;
Matches 12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 66.73
Matches 12; Conservative
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TYPE: nucleic acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AMGEN INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE: CDNA
                                                                                                                              ; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-413-803-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    linear
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                                                                                                                                                                                                                                                                                                                                                                                                                         US-08-321-488A-9/C
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Gaps
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                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                         APPLICANT: Itch, No. 5998170uyuki
APPLICANT: Martin, Frank
APPLICANT: Martin, Frank
APPLICANT: Danilenko, Dimitry
ITILE OF INVENTION: A FIBROBLAST GROWTH FACTOR
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 11.6; DB 2;
Pred. No. 5.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "OLIGONUCLEOTIDE"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Search completed: July 6, 2003, 15:30:04 Job time: 48.4545 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/08/943,915
US-08-943-915-14/c
; Sequence 14, Application US/08943915
Patent No. 5998170
; GENERAL INFORMATION:
                                                                                                                                                                                                         E: Amgen Inc.
1840 DeHavilland Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATTORNEY/AGENT INFORMATION:
NAME: MAZZA: R.Chard J.
REGISTRATION NUMBER: 2-46
REFERENCE/DOCKET NUMBER: A-46
TELECOMMUNICATION INFORMATION:
TELEPHONE: 805.447.4112
TELEPHONE: 805.447.1090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 AAUGGCCUAUCGGUGCGA 18
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66.78;
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ouery Match
Best Local Similarity 66.7
watches 12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH: 30 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                               STREET: 1840 DeHavil
CITY: Thousand Oaks
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    linear
                                                                                                                                                                                                                                                                                            COUNTRY: USA
ZIP: 91320-1789
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE:
                                                                                                                                                                                                           ADDRESSEE:
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GenCore version 5.1.6

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OM nucleic - nucleic search, using sw model

Run on: July 6, 2003, 15:04:31; Search time 102 Seconds

(without alignments)
275.469 Million cell updates/sec

Parfect score: 18
Sequence: 1 aauggccuaucggugcga 18
Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 1085931 seqs, 780495707 residues

Total number of hits satisfying chosen parameters: 885896
Minimum DB seq length: 60

Post-processing: Minimum Match 0%
Listing first 45 summaries
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13: /cgn2\_6/ptodata/2/pubpna/USOB\_NEW\_PUB.seq:\*
14: /cgn2\_6/ptodata/2/pubpna/USOB\_NEW\_P

Published\_Applications\_NA:\*

Database :

## SUMMARIES

Description	Sequence 98, Appl		Sequence 7. Appli	Sequence 8, Appli	Sequence 144, App	Sequence 3899, Ap	Sequence 36, Appl	Sequence 36, Appl	~	Sequence 15, Appl	Sequence 10, Appl	Sequence 14, Appl	Sequence 3596, Ap	Sequence 4, Appli	Sequence 14, Appl		Sequence 17, Appl	Sequence 18, Appl	P.
. QI	US-09-780-929-98.	US-09-780-929-107	US-09-798-675-7	US-09-798-675-8	US-09-975-719-144	US-09-940-185-3899	US-09-005-243-36	US-09-224-683-36	US-09-880-508-15	US-10-158-314-15	US-09-741-179A-10	US-09-741-179A-14	US-09-940-185-3596	US-09-759-272B-4	US-09-838-386-14	US-09-838-386-13	US-09-838-386-17	US-09-838-386-18	US-10-211-088-46
DB	10	10	10	10	6	ص م	10	10	6	6	6	6	6	10	10	10	10	2 10	6
å Query Match Length DB	16	53	3	ĕ	50	57	3	ě	46	46	š	ઝ	57	4	4	4.	4.	4	5
% Query Match	100.0	100.0	76.7	76.7	67.8	9.59	64.4	64.4	64.4	64.4	64.4	64.4	63.3	63.3	63.3	63.3	63.3	63.3	63.3
Score	18	18	13.8	13.8	12.2	11.8	11.6	11.6	11.6	11.6	11.6	11.6	11.4	11.4	11.4	11.4	11.4	11.4	11.4
Result No.	-	7	с С	4	o 5	9	c 2	გ ე	о О	c 10	c 11	c 12	c 13	c 14	15	c 16	c 17	18	19

Sequence 633, App Sequence 3, Appli Sequence 4, Appli Sequence 85, Appl Sequence 1226, Appl Sequence 1226, Appl Sequence 12080, Sequence 12689, Sequence 12689, Sequence 11, Appl Sequence 11, Appl Sequence 15, Appl Sequence 11, Appl	Sequence 15, Appl Sequence 26098, A Sequence 4, Appl Sequence 23, App Sequence 61, Appl Sequence 63, Appl Sequence 114, Appl Sequence 1700, Appl Sequence 3740, Appl	Endonuclease Activity	Length 18; Indels 0; Gaps 0;	nuclease Activity
US-09-780-533A-633 US-09-796-081-3 US-09-796-081-4 US-10-997-664-85 US-10-098-263B-1320 US-10-098-263B-1236 US-10-098-263B-1236 US-10-098-263B-120820 US-10-098-263B-120820 US-10-098-263B-120820 US-10-098-263B-126689 US-10-062-488-23 US-10-052-417-11 US-10-052-417-11 US-10-052-417-11 US-10-052-45-802-75 US-10-052-45-802-75 US-10-052-418-13 US-10-062-45-802-75 US-10-062-45-802-75 US-10-062-45-802-75 US-10-062-45-802-75 US-10-062-45-802-75 US-10-062-45-802-75 US-10-062-45-802-75	US-09-741-179A-15 US-10-098-263B-26098 US-09-919-831-4 US-09-985-529-23 US-09-815-656-61 US-09-815-656-61 US-09-529-063-114 US-09-529-063-114 US-09-940-185-3740	cals, Inc catalysts with 00/001) 09/780,929 8 7181,360 of Artificial Se	Score 18; DB 10; Pred. No. 1.1; 0; Mismatches 0; 18	1-929-107. Application US/09780929 No. US20020151693A1 A. INFORMATION: A. TRICHARTION: A. THE REPARKET, Romand A. T. BEIGELMAN, Leo OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity
00 100 00 00 00 00 00 00 00 00 00 00 00	000000	n US/097 3A1 armaceut conald Leo cleic Ac 684-H ( MBER: US 2001-02- ER: US 0-02-08 126 sion 3.0	100.0%; 100.0%; 1ve GUGCGA 	JS/09 JS/09 Aceut Ld
1197 1197 1197 125 125 126 130 130 130 144 143 144 150 150 150 150 150 150 150 150 150 150	200 200 200 200 200 200 200 200 200 200	, Application US/0978( US20020151693A1 CRMATION: RIDDSTWE Pharmaceutia Breaker, Ronald Beigelman, Leo NVERTION: NACISIC ACI ENCE: MBHB00-884-H (5) FLICATION NUMBER: US/LICATION NUMBER: US/CATION NUMBER: US/CATION NUMBER: US 60, NG DATE: 2000-02-08 SEQ ID NOS: 126 Patentin version 3.0 8 Artificial Sequence ORMATION: Description	7at JCG JCG	cation (S1693A1) Pharme Pharme Construction (Construction)
	000000	11ica 2015 100: 100: MBH 1100: MBH 110: MBH 10	arit onse GCCU GCCU	plic 2015 2015 ION: 2yme aker aker ION:
	ି ଦିଉଁ ତି ତି ତି ତି ତି ତା ତା ତା	Applicati S200201516 RMATION: RIbozyme P Breaker, Brigelman VENTION: N WCE: MBHBO ULICATION N UNCE: ADB CATION DATE: CATION NOS: CATION NOS: CATION NOS: CATION NOS: CATION NOS: CATION NOS: CATION NOS: CATION NOS:	n Similarity 18; Conserv 1 AAUGGCCUAU 	107 AP S200 RMAT RIDO Bre Bei
	11.2 11. 10.8 10.8 10.8 10.8 10.8	ULT 1 09-780-929-98 deunnee 98, Applica' atent No. US2002015: ENERAL INFORMATION: APPLICANT: Ribozyme APPLICANT: Beigelm TITLE OF INVENTION: FILE REFRENCE: MBH CURRENT APPLICATION CURRENT APPLICATION CURRENT APPLICATION CURRENT APPLICATION CURRENT APPLICATION CURRENT APPLICATION ELENGRAPH ELING DATE: MUMBER OF SEQ ID NO. SOFTWARE: PATENTING EMOTION 18 EMOTION 1	atch Sal S 18 1	00 2000
335 335 335 355 355 355 355 355 355 355	33 34 44 44 37 37 37 37 37 37 37 37 37 37 37 37 37	SULT 1 -09-780. Sequence Sequence Sequence Sequence Sequence APPLICE A	Query Ma Best Loc Matches	ULT 2 09-78 equent atent ENERA APPLI APPLI
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; OTHER INFORMATION: primer for site-directed mutagenesis to introduce Cla I site US-09-798-675-8
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TITLE OF INVENTION: Probes and Decoder Oligonucleotides
FILE REPERENCE: 4-69605-1
CURRENT APPLICATION NUMBER: US/09/940,185
CURRENT FILING DATE: 2001-08-27
PRIOR APPLICATION NUMBER: US 60/227,948
PRIOR FILING DATE: 2000-08-25
PRIOR FILING DATE: 2000-08-29
PRIOR FILING DATE: 2000-08-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
APPLICANT: Ausubel, Frederick M.
APPLICANT: Rahme, Laurence G.
TITLE OF INVENTION: VIRCLENCE-ASSOCIATED NUCLEIC ACID
TITLE OF INVENTION: SEQUENCES AND USES THEREOF
FILE REFERENCE: 00786/351003
CURRENT APPLICATION NUMBER: US/09/975,719
CURRENT FILING DATE: 2001-10-10
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                                                                                                                                                                                    76.7%; Score 13.8; DB 10;
64.7%; Pred. No. 2.5e+02;
ive 4; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             67.8%; Score 12.2; DB 9;
64.7%; Pred. No. 2e+03;
live 3; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: US 09/199,637
PRIOR FILING DATE: 1998-11-25
PRIOR FILING DATE: 1998-11-25
PRIOR PILING DATE: 1999-11-25
PRIOR FILING DATE: 1997-11-25
PRIOR FILING DATE: 1997-11-25
NUMBER OF SEQ ID NOS: 437
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 3899, Application US/09940185 Publication Vo. US20030096239A1 GENERAL INFORMATION: APPLICANT: Gunderson, Kevin
                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-975-719-144/c
; Sequence 144, Application US/09975719
; Publication No. US20030022349A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA ORGANISM: Pseudomonas aeruginosa
                                                                                                                                                                                                                                                                                  2 AUGGCCUAUCGGUGCGA 18
                                                                                                                                                                                                                                                                                                          |:||| :|:|| :|||| 6 ATGGCGTATCGATGCGA 22
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                                                TYPE: DNA ORGANISM: Artificial Sequence
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SOFTWARE: PatentIn version 3.1
SEQ ID NO 3899
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Best Local Similarity 64.73
Matches 11; Conservative
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Best Local Similarity
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SEQ ID NO 8
LENGTH: 30
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                                                                                                FEATURE:
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; OTHER INFORMATION: primer for site-directed mutagenesis for introducing Cla I site
US-09-798-675-7
                                                                                                                                                                                                                                                                             OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid
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APPLICANT: EMOLY University
TITLE OF INVENTION: HIV VACCINES
FILE REFERENCE: E056 2020
CURRENT APPLICATION NUMBER: US/09/798,675
CURRENT FILING DATE: 2001-12-11
PRIOR FILING DATE: 2000-03-02
PRIOR FILING DATE: 2000-03-02
PRIOR FILING DATE: 2000-12-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 8, Application US/09798675
Patent No. US20020106798A1
GENERAL INFORMATION:
TITLE OF INVENTION: HIV VACCINES
FILE REFERENCE: E056 2020
CURRENT APPLICATION NUMBER: US/09/798,675
CURRENT FILING DATE: 2001-12-11
PRIOR APPLICATION NUMBER: US 60/186,364
                CURRENT APPLICATION NUMBER: US/09/780,929
CURRENT FILING DATE: 2001-02-08
PRIOR APPLICATION NUMBER: US 60/181,360
PRIOR FILING DATE: 2000-02-08
NUMBER OF SEQ ID NOS: 126
SOFTWARE: PATENTIAN VERSION 3.0
SEQ ID NO 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR FILING DATE: 2000-03-02
PRIOR APPLICATION NUMBER: US 60/251,083
PRIOR FILING DATE: 2000-12-01
FILE REFERENCE: MBHB00-884-H (500/001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 7, Application US/09798675
Patent No. US20020106798A1
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SOFTWARE: PatentIn version 3.0
                                                                                                                                                                                                            TYPE: RNA
ORGANISM: Artificial Sequence
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SOFTWARE: PatentIn version
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US-09-798-675-7/C
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LENGTH: 30
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Gaps

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Score 11.6; DB 10; Length 30;
Pred. No. 4.3e+03;
2; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                              APPLICANT: Sebo, Krisztina M.
APPLICANT: Bosselman, Robert A.
APPLICANT: Suggs, Sidney V.
APPLICANT: Martin, Francis H.
TITLE OF INVENTION: Stem Cell Factor: Composition Claims
NUMBER OF SEQUENCES: 104
                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/224,683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CITY: Chicago STATE: 111hois COUNTY: United States of America ZIP: 6060-6402 COMPUTER READABLE FORM: MEDIUM TYPE: Rloppy disk COMPUTER: IBM PC COMPATIBLE COMPUTER: BM PC COMPATIBLE OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: 01-0CT-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/573,616
FILING DATE: 24-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/537,198
FILING DATE: 11-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/422,383
FILING DATE: 16-OCT-1989
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/982,255
FILING DATE: 25-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/589,701
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/449,653
FILING DATE: 24-MAY-1995
                                                                                                                                                                                                                                                                    Sequence 36, Application US/09224683 Patent No. US20020031491A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/005,893
FILING DATE: 12-JAN-1998
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  UMBER: 07/589,701
01-OCT-1990
                                                                                                                1 AAUGGCCUAUCGGUGCGA 18
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                                                                                                                                         REFERENCE/DOCKET NUMBER: 0:
TELECOMMUNICATION INFORMATION
                               64.48;
66.78;
                          Query Match
Best Local Similarity 66.7
Matches 12; Conservative
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TELEX: 25-3856
INFORMATION FOR SEQ ID NO:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: Clough, David W. REGISTRATION NUMBER: 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 30 base pairs
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EDNESS: single
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                                                                                                                                                                                                                                                US-09-224-683-36/c
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                                          Length 24;
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STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
                                                                                       2; Indels
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/005,243
                                      Score 11.8; DB 9;
Pred. No. 3.3e+03;
2; Mismatches 2;
                                                                                                                                                                                                                                                         US-09-005-243-36/c

Sequence 36, Application US/09005243

Patent No. US2002018763A1

GENERAL INFORMATION:
APPLICANT: Seabo, Krisztina M.
APPLICANT: Bosselman, Robert A.
APPLICANT: Suggs, Sidney V.
APPLICANT: Martin, Francis H.
TITLE OF INVENTION: Stem Cell Factor
NUMBER OF SEQUENCES: 104
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COUNTRY: United States of America
ZIP: 60606-6402
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APPLICATION NUMBER: 07/982,255
FILING DATE: 25-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/589,701
FILING DATE: 01-0CT-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/573,616
FILING DATE: 24-AUG-1990
PRIOR APPLICATION NUMBER: 07/537,198
FILING DATE: 11-JUN-1990
PRIOR APPLICATION NUMBER: 07/537,198
FILING DATE: 11-JUN-1990
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/449,653
FILING DATE: 24-MAY-1995
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: 07/422,383
FILING DATE: 16-OCT-1989
ATTORNEY AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: CLOUGH, DAVID W.
REGISTRATION NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 0101
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6300
TELEFAX: 312/474-6448
                                          65.6%;
                                                                                                                                                      2 GGCCTAGAGGTGCGA 16
                                                                                                                                4 GGCCUAUCGGUGCGA 18
                                                                                     11; Conservative
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LENGTH: 30 base pairs
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INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; MOLECULE TYPE: DNA
US-09-005-243-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              linear
                                                                 Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE:
US-09-940-185-3899
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                                            Query Match
                                                                                     Matches
                                                                                                                                                                                                                                         RESULT 7
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STRANDEDNESS:

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APPLICANT: Rice, Charles M.
APPLICANT: Rice, Charles M.
Kolykhalov, Alexander A.
TITLE OF INVENTION: NOVEL 3' TERMINAL SEQUENCE OF HEPATITIS
C VIRUS GENOME AND DIAGNOSTIC AND THERAPEUTIC USES THER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
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SEQUENCE DESCRIPTION: SEQ ID NO: 15:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: DNA-BASED ANALOG NEURAL NETWORKS FILE REFERENCE: 31860-168252 CURRENT APPLICATION UNBER: US/09/741,179A CURRENT FILING DATE: 2000-12-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           64.4%; Score 11.6; DB 9;
61.1%; Pred. No. 4.4e+03;
                                                                                                                                                                                                       ADDRESSEE: Howell & Haferkamp, L.C.
STREET: 7733 Forsyth Blvd., Suite 1400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE/DOCKET NUMBER: 6029-6836
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/09/368,958
                                                                                                                                                                                                                                                                                                                                                                        OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: PatentIn Release #1.0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: <Unknown>
APPLICATION NUMBER: 08/897,126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATTORNEY/AGENT INFORMATION:
NAME: Henderson, Melodie W.
REGISTRATION NUMBER: 37,848
                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 10, Application US/09741179A Publication No. US20030022164A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: 09/129,958
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELECOMMUNICATION INFORMATION:
                                    ; Sequence 15, Application US/10158314; Publication No. US20030054341A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                    Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEPHONE: 314-727-5188
TELEFAX: 314-727-6092
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY: linear MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH: 46 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
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OTHER INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
                                                                                                                                                                   NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FELEX: <Unknown>
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                                                                                                                                                                                                                                            Louis
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
APPLICANT: MILLS, ALLEN
                                                                                                                                                                                                                                                                                COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                               ZIP: 63105
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                     US-10-158-314-15/c
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                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: NOVEL 3' TERMINAL SEQUENCE OF HEPATITIS
C VIRUS GENOME AND DIAGNOSTIC AND THERAPEUTIC USES THEREOF
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                                                                        Length 30;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                             Indels
                                                                       Score 11.6; DB 10;
Pred. No. 4.3e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 11.6; DB 9;
Pred. No. 4.4e+03;
3; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
ADDRESSEE: Howell & Haferkamp, L.C.
STREET: 7733 FORSYth Blvd., Suite 1400
CITY: St. Louis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APLICATION DATE:

FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Henderson, Malodie W.
REGISTRATION NUMBER: 37,848
REFERENCE/DOCKET NUMBER: 6029-6836
                                                                                                           2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                            Sequence 15, Application US/09880508 Publication No. US20030027130A1 GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: DNA (genomic) FEATURE:
                                                                                                                                                                                                                                                                                                                              APPLICANT: Rice, Charles M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 AAUGGCCUAUCGGUGCGA 18
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                                                                                                                                              1 AAUGGCCUAUCGGUGCGA 18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO: 15:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 64.48;
61.18;
                                                                        64.48;
66.78;
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                                                                                                                                                                     19 AAAGGCCTATCCGGCCGA
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Best Local Similarity 61.17
Matches 11; Conservative
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                                                                       Query Match
Best Local Similarity 66.7
Matches 12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZIP: 63105
               ; MOLECULE TYPE: DNA
US-09-224-683-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY:
TOPOLOGY: linear
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                                                                                                                                                                                                                                                           US-09-880-508-15/c
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                                                                                                                                                                                                         OTHER INFORMATION: Description of Artificial Sequence: Synthetic CTHER INFORMATION: 11lustrative nucleotide sequence US-09-741-179A-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION: Description of Artificial Sequence: Synthetic; OTHER INFORMATION: 11lustrative nucleotide sequence US-09-741-179A-14
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                                                                                                                                                                                                                                                                                                                                            4; Indels
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APPLICANT: Chee, Mark
TITLE OF INVENTION: Probes and Decoder Oligonucleotides
FILE REFERENCE: A-69605-1
CURRENT APPLICATION NUMBER: US/09/940,185
CURRENT APPLICATION NUMBER: US 60/227,948
PRIOR APPLICATION NUMBER: US 60/227,948
PRIOR PELING DATE: 2000-08-25
PRIOR FILING DATE: 2000-08-29
PRIOR FILING DATE: 2000-08-29
NUMBER OF SEQ ID NOS: 4768
                                                                                                                                                                                                                                                                                               Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 14, Application US/09741179A
Publication No US20030022164A1
GENERAL INFORMATION:
APPLICANT: MILLS, ALLEN
TITLE OF INVENTION:
CURRENT APPLICATION NUMBER: US/09/741,179A
CURRENT FILING DATE: 2000-12-21
PRIOR APPLICATION NUMBER: 09/129,958
PRIOR APPLICATION NUMBER: 09/129,958
PRIOR FILING DATE: 1998-08-06
PRIOR APPLICATION NUMBER: 60/293,263
PRIOR FILING DATE: 2000-10-12
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PATENTIN Ver. 2.1
SEQ ID NO 14
LENGTH: 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 11.6; DB 9;
Pred. No. 4.4e+03;
4; Mismatches 4;
                                                                                                                                                                                                                                                                                               Score 11.6; DB 9;
Pred. No. 4.4e+03;
4; Mismatches 4;
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Publication No. US20030096239A1
GENERAL INFORMATION:
PRIOR FILING DATE: 1998-08-06
PRIOR APPLICATION UNMER: 60/293,263
PRIOR FILING DATE: 2000-10-12
NUMBER OF SEQ ID NOS: 29
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 10
LENGTH: 50
                                                                                                                                                                                                                                                                                                                                                                                                      | :|| |:|:| |:| || 45 ATTGGTCTATCTGTGTGA 28
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                                                                                                                                                                                                                                                                                               64.4%;
55.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           64.48;
55.68;
                                                                                                                                           TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 55.69
Matches 10; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
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Best Local Similarity
Local 10; Conserve
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US-09-741-179A-14/c
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                                                                                                                                                                                      FEATURE:
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APPLICANT: KUKOLJ, George
TITLE OF INVENTION: Internal De No. US20010055756Alo Initiation Sites of the INTITLE OF INVENTION: Internal De No. US20010055756Alo Initiation Sites of the INTITLE OF INVENTION: Thereof
FILE REFERENCE: 1011.2180001
CURRENT APPLICATION NUMBER: US/09/838,386
CURRENT APPLICATION NUMBER: US/09/838,793
PRIOR APPLICATION NUMBER: US 60/198,793
PRIOR FILING DATE: 2000-04-21
NUMBER OF SEQ ID NOS: 25
SOFTWARE: Patentin version 3.0
SEQ ID NO 14
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                                                                                                                                                                               Length 24;
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                                                                                                                 ; OTHER INFORMATION: Computer Generated Probe Sequence. US-09-940-185-3596
                                                                                                                                                                                                                                                                                                                                                                                          Sequence 4, Application US/09759272B
Patent No. US20020137111A1
GENERAL INFORMATION:
TATLE OF INVENTION: Chlamydia Heat Shock Protein
FILLE REFERENCE: 83815-1702
CURRENT APLLCATION NUMBER: US/09/759,272B
CURRENT FILING DATE: 2001-01-16
NUMBER OF SEQ ID NOS: 5
SOFTWARE PATENTIN Ver. 2.1
SEQ ID NO 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 63.3%; Score 11.4; DB 10;
Best Local Similarity 69.2%; Pred. No. 5.7e+03;
Matches 9; Conservative 3; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 11.4; DB 10;
Pred. No. 5.7e+03;
5; Mismatches 3;
                                                                                                                                                                           Score 11.4; DB 9;
Pred. No. 5.6e+03;
3; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 14, Application US/09838386 Patent No. US2001005575641 GENERAL INFORMATION: APPLICANT: Pellerin, Charles APPLICANT: KUKOlj, George
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: misc_feature
; OTHER INFORMATION: oligonucleotide
US-09-838-386-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; TYPE: DNA
; ORGANISM; Chlamydia trachomatis
US-09-759-272B-4
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SOFTWARE: PatentIn version 3.1
SEQ ID NO 3596
LENGTH: 24
                                                      TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                           63.3%;
69.2%;
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52.9%;
                                                                                                                                                                                                                                                                              24 CATATCGGTGCGA 12
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Best Local Similarity 52.9*
                                                                                                                                                                                                                                                        6 CCUAUCGGUGCGA 18
                                                                                                                                                                           Query Match 63.3
Best Local Similarity 69.2
Matches 9; Conservative
                                                                                                                                                                                                                                                                                                                                                       RESULT 14
US-09-759-272B-4/C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-838-386-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 41
                                                                                                 FEATURE:
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1 AAUGGCCUAUCGG 13 ||:||||:|| || 23 AATGGCCTATTGG 35

Search completed: July 6, 2003, 16:52:33 Job time : 103 secs

/ptodata/1/pna/US6004\_COMB.seq:\*

/cgn2\_6/ptodata/1/pna/US6004\_COMB.seq. /cgn2\_6/ptodata/1/pna/US6005\_COMB.seq. /cgn2\_6/ptodata/1/pna/US6006\_COMB.seq. /cgn2\_6/ptodata/1/pna/US6007\_COMB.seq.

## GenCore version 5.1.6 Copyright (c) 1993 - 2003 Compugen Ltd.

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6, 2003, 14:40:47 ; Search time 1951.09 Seconds
(without alignments)
231.955 Million cell updates/sec
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cgn2_6/ptcdata/1/pna/USO6_COMB.seq:*

cgn2_6/ptcdata/1/pna/USO6_COMB.seq:*

cgn2_6/ptcdata/1/pna/USO8_COMB.seq:*

cgn2_6/ptcdata/1/pna/USO9_COMB.seq:*

cgn2_6/ptcdata/1/pna/USO9_RCOMB.seq:*

cgn2_6/ptcdata/1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12745074
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         24791104 seqs, 12571243825 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Total number of hits satisfying chosen parameters:
- nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pending_Patents_NA_Main:*
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                                                                                                                                                                                                                                                                                                                            1 aauggccuaucggugcga 18
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                                                                                                                                                                                                                                  US-09-780-929-98
18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Maximum
                                                                                  July
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Perfect score:
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    OM nucleic
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                                                                                  Run on:
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/cgn2\_6/ptodata/1/pna/US6008\_COMB.seq: /cgn2\_6/ptodata/1/pna/US6009\_COMB.seq: /cgn2\_6/ptodata/1/pna/US6010\_COMB.seq: /cgn2\_6/ptodata/1/pna/US6011\_COMB.seq: /cgn2\_6/ptodata/1/pna/US6011\_COMB.seq: /cgn2\_6/ptodata/1/pna/US6012\_COMB.seq: /cgn2\_6/ptodata/1/pna/US6015\_COMB.seq: /cgn2\_6/ptodata/1/pna/US6015\_COMB.seq: /cgn2\_6/ptodata/1/pna/US6015\_COMB.seq: /cgn2\_6/ptodata/1/pna/US6012\_COMB.seq: /cgn2\_6/ptodata/1/pna/US6012\_COMB.seq: /cgn2\_6/ptodata/1/pna/US6012\_COMB.seq: /cgn2\_6/ptodata/1/pna/US6012\_COMB.seq: /cgn2\_6/ptodata/1/pna/US6022\_COMB.seq: /cgn2\_6/ptodata/1/pna/US6022\_COMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

/cgn2\_6/ptodata/1/pna/US6041\_COMB.seq:

ptodata/1/pna/US6037\_COMB.sed:

/cgn2\_6/

ptodata/1/pna/US6034\_COMB.seq ptodata/1/pna/US6035\_COMB.seq

/cgn2\_6/ /cgn2\_6/ /cgn2\_6/ /cgn2\_6/ /cgn2\_6/

ptodata/1/pna/US6030\_COMB.seq /ptodata/1/pna/US6031\_COMB.seq /ptodata/1/pna/US6032\_COMB.seq /ptodata/1/pna/US6033\_COMB.seq

Description	Sequence 98, Appl	Sequence 107, App	Sequence 7, Appli	Sequence 8, Appli	Sequence 7, Appl1	Sequence 8, Appli	Sequence 20491, A	Sequence 20491, A	Sequence 20491, A	Sequence 30098, A	Sequence 426597,	Sequence 6465, Ap	Sequence 105593,	Sequence 114271,	Sequence 6465, Ap	Sequence 105593,	Sequence 114271,	Sequence 6465, Ap	Sequence 105593,	Sequence 114271,	Sequence 30098, A
qı	US-09-780-929-98	US-09-780-929-107	PCT-US01-06795A-7	PCT-US01-06795A-8	US-09-798-675-7	US-09-798-675-8	US-09-908-975-20491	US-09-908-975A-20491	US-60-287-724-20491	US-09-954-427-30098	US-09-956-584-426597	US-09-956-604-6465	US-09-956-604-105593	US-09-956-604-114271	US-09-956-604A-6465	US-09-956-604A-105593	US-09-956-604A-114271	US-09-956-604B-6465	US-09-956-604B-105593	US-09-956-604B-114271	US-60-233-166-30098
DB	30	30			30	30	34	34	72	36	36	36	36	36	36	36	36	36	36	36	29
% Duery Match Length DB	100.0	100.0 29	76.7 30	76.7 30	76.7 30	76.7 30	74.4 60	74.4 60	74.4 60	73.3 25	73.3 25	73.3 25	73.3 25	73.3 25	73.3 25	73.3 25	73.3 25	73.3 25	73.3 25	73.3 25	73.3 25
Score	18 1	18	13.8	13.8	13.8	13.8	13.4	13.4	13.4	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
Result No.		2	с Э	4	ς S	9	7	80	6	10	c 11	c 12	c 13	c 14	c 15	c 16	c 17	c 18	c 19	c 20	21

/ptodata/1/pna/US099A\_COMB.seq:\* /ptodata/1/pna/US099B\_COMB.seq:\*

cgn2\_

/cgn2\_6/ptodata/1/pna/US102B\_COMB.seq:

Gaps

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FEATURE:
; OTHER INFORMATION: primer for site-directed mutagenesis for introducing Cla I sit
pcT-USOI-06795A-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OTHER INFORMATION: primer for site-directed mutagenesis to introduce Cla I site
                                                                                                                                                                                                                                                          ; OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid
US-09-780-929-107
                                                                                                                                                                                                                                                                                                                                                    Length 29;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 30;
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O
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                                                                                                                                                                                                                                                                                                                                                    100.0%; Score 18; DB 30; 100.0%; Pred. No. 8.2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADDITION OF THE OWN THE THREE 
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TITLE OF INVENTION: HIV VACCINES
FILE REPERENCE: E056 2020
CURRENT APPLICATION NUMBER: PCT/USO1/06795A
CURRENT FILING DATE: 2001-03-02
PRIOR APPLICATION NUMBER: US 60/186,364
PRIOR FILING DATE: 2000-03-02
PRIOR FILING DATE: 2000-12-01
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn version 3.1
SEQ ID NO 8
LENGTH: 30
                                                                                                                                                                                                                                                                                                                                                                                                                 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; Sequence 8, Application PC/TUS0106795A; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CT-US01-06795A-7/c
Sequence 7, Application PC/TUS0106795A
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8 AAUGGCCUAUCGGUGCGA 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 AAUGGCCUAUCGGUGCGA 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2 AUGGCCUAUCGGUGCGA 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1:111 :1:11 :1111 25 ATGCCGTATCGATGCGA 9
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                                      NUMBER OF SEQ ID NOS: 126
SOFTWARE: Patentin version 3.0
SEQ ID NO 107
LENGTH: 29
                                                                                                                                                                                             ORGANISM: Artificial Sequence
         PRIOR FILING DATE: 2000-02-08
                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 100.0
Matches 18; Conservative
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                                                                                                                                                                   TYPE: RNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQ ID NO 7
                                                                                                                                                                                                                                 FEATURE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Breaker, Ronald
APPLICANT: Breaker, Ronald
APPLICANT: Beigelman, Leo
TITLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity
FILE REFERENCE: MBHB00-884-H (500/001)
CURRENT APPLICATION NUMBER: U$/09/780,929
CURRENT FILING DATE: 2001-02-08
PRIOR PAPLICATION NUMBER: US 60/181,360
PRIOR FILING DATE: 2000-02-08
NUMBER OF SEQ ID NOS: 126
SOFTWARE: Patentin version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Breaker, Ronald
APPLICANT: Beigelman, Leo
TITLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity
FILE REFERENCE: MBH600-884-H (500/001)
CURRENT APPLICATION NUMBER: US/09/780,929
CURRENT FILING DATE: 2001-02-08
PRIOR APPLICATION NUMBER: US 60/181,360
                                                                                                                          Sequence 82
Sequence 15
Sequence 31
Sequence 31
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Sequence 5
Sequence 1
Sequence 1
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US-60-234-017-416087

US-60-234-049-64081

US-60-234-049-101848

US-60-235-3987-812852

US-09-956-584-317645

US-09-956-584-317685

US-09-956-584-317685

US-09-956-584-317685

US-09-956-584-317685

US-09-956-584-317685

US-09-956-644-326318

US-09-956-644-326318

US-09-956-6048-110553

US-09-956-6048-110553

US-09-956-6048-110553

US-09-956-6048-110553

US-00-956-6048-110553

US-00-233-620-39955

US-60-234-017-131964

US-60-234-017-131964

US-60-234-017-287141

US-60-234-017-287141
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 98, Application US/09780929
GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals, Inc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Ribozyme Pharmaceuticals, Inc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 107, Application US/09780929 GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: RNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-780-929-107
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                                                                                                                                                          SEQ ID NO 98
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APPLICANT: MINTZ, Liat
TITLE OF INVENTION: OLIGOWUCLEOTIDE LIBRARY FOR DETECTING RNA TRANSCRIPTS AND SI
TITLE OF INVENTION: THAT POPULATE A TRANSCRIPTOME
FILL REPERENCE: 36688-0005
CURRENT FILING DATE: 2001-07-20
PRIOR APPLICATION NUMBER: US 60/287,724
PRIOR FILING DATE: 2001-05-02
PRIOR PLING DATE: 2001-07-28
NUMBER OF SEQ ID NOS: 32337
SOFTWARR: PARENTIN VERSION 3.0
SOFTWARR: PARENTIN VERSION 3.0
SOFTWARR: PARENTIN VERSION 3.0
SEQ ID NO 20491
LENGTH: 60.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: WASSERMAN, Alon
APPLICANT: WASSERMAN, Alon
APPLICANT: MINTZ, Eli
APPLICANT: MINTZ, Liat
APPLICANT: MINTZ, Liat
APPLICANT: MINTZ, Liat
APPLICANT: FAIGHER, Simchon
TITLE OF INVENTION: OLIGONUCLEOTIDE LIBRARY FOR DETECTING RNA TRANSCRIPTS AND SI
TITLE OF INVENTION: THAT POPULATE A TRANSCRIPTOME
FILE REFERENCE: 36688-0006.
CURRENT APPLICATION NUMBER: US 60/297,724
PRIOR APPLICATION NUMBER: US 60/287,724
PRIOR FILING DATE: 2001-05-02
PRIOR FILING DATE: 2000-07-28
PRIOR FILING DATE: 2000-07-28
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66.7%; Pred. No. 4.4e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 13.4; DB 34;
Pred. No. 4.4e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-908-975A-20491
; Sequence 20491, Application US/09908975A
; GENERAL INFORMATION:
                                                                                          Sequence 20491, Application US/09908975 GENERAL INFORMATION:
APPLICANT: SHOSHAN, AVI
APPLICANT: WASSERMAN, Alon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE: Patentin version 3.0 SEQ ID NO 20491
LENGTH: 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 74.4%;
Best Local Similarity 66.7%;
Matches 10; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | :||||:||:||:|
ATTGGCCTATCGGTG 15
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1 ATTGGCCTATCGGTG 15
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Best Local Similarity 66.73
Matches 10; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; ORGANISM: Homo sapiens US-09-908-975-20491
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Homo sapiens
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                                                                       US-09-908-975-20491
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COTHER INFORMATION: primer for site-directed mutagenesis to introduce Cla I site US-09-798-675-8
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                                             Score 13.8; DB 1; Length 30;
Pred. No. 2.4e+03;
4; Mismatches 2; Indels
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Pred. No. 2.4e+03;
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TITLE OF INVENTION: HTV VACCINES
FILE REFERENCE: ED56 2020
CURRENT APPLICATION NUMBER: US/09/798,675
CURRENT FILING DATE: 2001-12-11
PRIOR APPLICATION NUMBER: US 60/186,364
PRIOR APPLICATION NUMBER: US 60/251,083
PRIOR FILING DATE: 2000-03-02
PRIOR FILING DATE: 2000-12-01
NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patentin version 3.0
LENGTH: 30
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US-09-798-675-7/C
Sequence 7, Application US/09798675
Sequence 7, Application US/09798675
Sequence 7, Application US/09798675
TILE REPERBY UNIVERSITY
TILE REFERENCE: E056.2020
CURRENT APPLICATION NUMBER: US/09/798,675
CURRENT FILING DATE: 2001-12-11
PRIOR FILING DATE: 2000-12-11
PRIOR FILING DATE: 2000-03-02
PRIOR FILING DATE: 2000-12-01
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PATENT NOS: 24
SOFTWARE: PATENT VETSION 3.0
SERIOTH: 30
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6 ATGGCGTATCGATGCGA 22
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25 ATGGCGTATCGATGCGA 9
                                           76.7%;
Best Local Similarity 64.7%;
Matches 11; Conservative
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Best Local Similarity 64.7%;
Matches 11; Conservative
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PCT-US01-06795A-8
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GENERAL INFORMATION:
APPLICANT: Mittmann. Michael
TITLE OF INVENTION:
FILE REFERENCE: 3117.1
CURRENT APPLICATION NUMBER: US/09/956,604
CURRENT APPLICATION NUMBER: 05/01-09-19
PRIOR APPLICATION NUMBER: 60/234,049
PRIOR APPLICATION NUMBER: 60/234,049
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
SEQ ID NO 105593
                                                                                                                                                                                                                                                                                                                                                   Sequence 6465, Application US/09956604
GENERAL INFORMATION:
TAPLICANT: Mittmann, Michael
TILLE OF INVENTION: Methods of Genetic Analysis of Escherichia coli
PILE REFERENCE: 3117.1
CURRENT APPLICATION NUMBER: US/09/956,604
CURRENT FILING DATE: 2001-09-19
PRIOR FILING DATE: 2000-09-19
PRIOR FILING DATE: 2000-09-19
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SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
SEQ ID NO 6465
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Pred. No. 5.3e+03;
3; Mismatches 3;
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Pred. No. 5.3e+03;
4; Mismatches 3;
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61.1%; Pred. No. 5.3e+03;
tive 4; Mismatches 3;
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66.78;
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61.1%;
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CRGANISM: Escherichia coli
US-09-956-604-105593
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US-09-956-604-6465
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Best Local Similarity 66.7
Matches 12; Conservative
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Best Local Similarity 61.1
Matches 11; Conservative
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Matches 11; Conservative
                                      TYPE: DNA
ORGANISM: Mus musculus
US-09-956-584-426597
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US-09-956-604-6465/c
SEQ ID NO 426597
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                     LENGTH:
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APPLICANT: MINES, E11
APPLICANT: MINES, E11
APPLICANT: MINES, Liat
APPLICANT: FIGLER, Simchon
APPLICANT: FIGLER, Simchon
TITLE OF INVENTION: OLIGONUCLECTIDE LIBRARY FOR DETECTING RNA TRANSCRIPTS AND SPLICE
TITLE OF INVENTION: THAT POPULATE A TRANSCRIPTOME
FILE REFERENCE: 36688-0004
CURRENT APPLICATION NUMBER: US/60/287,724
CURRENT FILING DATE: 2001-05-02
NUMBER OF SEQ ID NOS: 32337
SOFTWARE: Patentin version 3.0
SEQ ID NO 20491
LENGTH: 60
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TITLE OF INVENTION: Methods of Genetic Analysis of Mus Musculus
FILE REFERENCE: 3115.1
                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 60;
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SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
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APPLICANT: Mittmann
APPLICANT: Affymetrix, Inc.
TITLE OF INVENTION: Methods of Genetic Analysis of the Rat
TITLE OF INVENTION: Genome
FILE REFERENCE: 3112
CURRENT APPLICATION NUMBER: US/09/954,427
CURRENT FILING DATE: 2001-09-17
NUMBER OF SEQ ID NOS: 420907
SOFTWARE: FASTESO for Windows Version 4.0
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                                                                                                                                                                                                                                                                                                                                                                                                                                   74.4%; Score 13.4; DB 72;
66.7%; Pred. No. 4.4e+03;
tive 4; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: GenBank AA818650
US-09-954-427-30098
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                 Sequence 20491, Application US/60287724
GENERAL INFORMATION:
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1 ATTGGCCTATCGGTG 15
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                                                   APPLICANT: SHOSHAN, AVI
APPLICANT: WASSERMAN, Alon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10; Conservative
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Matches 12; Conservative
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LENGTH: 25
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US-09-956-604A-6465/C
; SQUENCE 6465, Application US/09956604A
; SQUENCE 6465, Application US/09956604A
; GENERAL INFORMATION:
; APPLICANT: Mittmann, Michael
; TITLE OF INVEWION: Methods of Genetic Analysis of Escherichia coli;
; FILE REFERENCE: 317.11 WIMBER: US/09/956,604A
; CURRENT APPLICATION NUMBER: US/09/956,604A
; CURRENT FILING DATE: 2001-09-19
; PRIOR APPLICATION NUMBER: 60/234,049
; PROR FILING DATE: 2000-09-19
; SEQ ID NOS: 141629
; SEQ ID NO 6465
; LENGTH: 25
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Sequence 114271, Application US/09956604
GENERAL INFORMATION:
APPLICANT: Mittenan, Michael
TITLE OF INVENTION: Methods of Genetic Analysis of Escherichia coli
FILE REFERENCE: 3117.1
CURRENT APPLICATION NUMBER: US/09/956,604
CURRENT FILING DATE: 2001-09-19
PRIOR APPLICATION NUMBER: 60/234,049
PRIOR FILING DATE: 2000-09-19
NUMBER OF SEQ ID NOS: 141629
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
LENGTH: 25
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Pred. No. 5.3e+03;
4; Mismatches 3; Indels
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tive 4; Mismatches 3; Indels
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Job time: 1953.09 secs
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23 AATGGTCTATCGTTGAGA 6
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61.1%;
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; ORGANISM: Escherichia coll
US-09-956-604-114271
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US-09-956-604A-6465
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Best Local Similarity 61.1
Matches 11; Conservative
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Best Local Similarity 61.1
Matches 11; Conservative
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834630, 904618,

534678,

Scoring table:

Total number

Database

Searched:

score:

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Run on:

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Sequence 155742,
Sequence 156720,
Sequence 156722,
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Sequence 8
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FILE REFERENCE: 12804-006001
CURRENT APPLICATION HOWBER: US/10/336,566
CURRENT FILING DATE: 2003-01-03
PRIOR PELLING DATE: 2003-01-03
PRIOR FILING DATE: 2001-03-01
PRIOR APPLICATION NUMBER: US 09/798,675
PRIOR PELLING DATE: 2001-03-01
PRIOR PELLING DATE: 2001-03-01
PRIOR PELLING DATE: 2001-03-01
PRIOR PELLING DATE: 2001-03-01
PRIOR PELLING DATE: 2000-03-02
PRIOR FILING DATE: 2000-03-02
PRIOR FILING DATE: 2000-03-02
PRIOR PELLING DATE: 2000-12-01
PRIOR PELLING DATE: 2000-03-02
PRIOR PELLING DATE: 2001-09-25
US-10-355-577-133076
US-10-355-577-152466
US-10-355-577-814610
US-10-355-577-814618
US-60-427-808-26539
US-60-427-808-26539
US-60-427-808-34674
US-60-427-808-34674
US-60-427-808-34674
US-60-427-808-34674
US-60-427-808-34674
US-60-427-808-34678
US-60-427-8136-81651
US-60-427-8136-81651
US-60-427-8136-81652
US-60-427-816-81652
US-60-427-816-81652
US-60-427-816-81632
US-10-355-577-501903
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 21 LENGTH: 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 21, Application US/10336566
GENERAL INFORMATION:
APPLICANT: Robinson, Harriet L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Smith, James M.
Hua, Jian
   US-10-336-566-21/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE:
     Sequence 125229,
Sequence 897906,
Sequence 12227, A
Sequence 12425, A
Sequence 21425, A
Sequence 821852,
Sequence 512279,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 21, Appl
                                                                                                                                          (without alignments)
206.249 Million cell updates/sec
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                                                                                                                        6, 2003, 14:51:21; Search time 624.545 Seconds
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/cgn2_6/ptodata/2/pna/US06_NEW_COMB.seq4:*
/cgn2_6/ptodata/2/pna/US06_NEW_COMB.seq4:*
/cgn2_6/ptodata/2/pna/US07_NEW_COMB.seq4:*
/cgn2_6/ptodata/2/pna/US07_NEW_COMB.seq4:*
/cgn2_6/ptodata/2/pna/US08_NEW_COMB.seq1:*
/cgn2_6/ptodata/2/pna/US08_NEW_COMB.seq1:*
/cgn2_6/ptodata/2/pna/US08_NEW_COMB.seq1:*
/cgn2_6/ptodata/2/pna/US09_NEW_COMB.seq1:*
/cgn2_6/ptodata/2/pna/US09_NEW_COMB.seq2:*
/cgn2_6/ptodata/2/pna/US09_NEW_COMB.seq3:*
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/cgn2_6/ptodata/2/pna/US10_NEW_COMB.seq:*
/cgn2_6/ptodata/2/pna/US10_NEW_COMB.seq2:*
/cgn2_6/ptodata/2/pna/US10_NEW_COMB.seq2:*
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/cgn2_6/ptodata/2/pna/US60_NEW_COMB.seq1:*
/cgn2_6/ptodata/2/pna/US60_NEW_COMB.seq2:*
/cgn2_6/ptodata/2/pna/US60_NEW_COMB.seq3:*
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    /cgn2_6/ptodata/2/pna/PCT_NEW_COMB.seq:*
    /cgn2_6/ptodata/2/pna/PCT_NEW_COMB.seq4:
                   GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
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US-10-316-566-22
US-10-310-188-56966
US-60-427-808-19526
US-60-427-808-195229
US-60-427-808-897906
US-60-477-808-897906
US-60-477-808-897906
US-10-287-787-12927
US-10-287-787-21425
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Gapop 10.0 , Gapext 1.0
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Match
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Length 30;

Score 13.8; DB 15; Pred. No. 9.6e+02;

76.78; 64.78;

Query Match Best Local Similarity

4996, Ap 821852, 512279,

US-10-287-787-4996 US-10-355-577-821852 US-60-427-808-512279 US-09-954-445A-39955

13 13 12.8

113.8 113.2 113.2 113.2 113.2 113.2 113.2 113.2

1110087634331

Score

Result ě O Ç 39955,

Sequence

OTHER INFORMATION: Primer

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918802,

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Gaps
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                                                                                                 Sequence 19526, Application US/60427808
GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
FILLE REFERENCE: 35.28
CURRENT APPLICATION NUMBER: US/60/427,808
CURRENT FILING DATE: 2002-11-20
NUMBER OF SEQ ID NOS: 982914
SEQ ID NO 19526
LENGTH: 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Xue Mei Zhou
TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
FILE REFERENCE: 35.38
CURRENT APPLICATION NUMBER: US/60/427,808
CURRENT FILING DATE: 2002-11-20
NUMBER OF SEQ ID NOS: 982914
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
LENGTH: 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILE REFERENCE: 3528
CURRENT PELLING DATE: US/60/427,808
CURRENT FILING DATE: 2002-11-20
NUMBER OF SEQ ID NOS: 982914
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
SEQ ID NO 897906
LENGTH: 25
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TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
                                                                                                                                                                                                                                                                                                                                                                                                                      Score 13.2; DB 18;
Pred. No. 2.1e+03;
1; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 13.2; DB 18;
Pred. No. 2.1e+03;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-60-427-808-897906; Sequence 897906; Application US/60427808; GENERAL INFORMATION:
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66.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                          73.3%;
61.1%;
  21 AATGGCCTATGGATGCAA
                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 73.3
Best Local Similarity 61.1
Matches 11; Conservative
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Best Local Similarity 66.7
Matches 12; Conservative
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; ORGANISM: Mus musculus
US-60-427-808-125229
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ORGANISM: Mus musculus
US-60-427-808-897906
                                                                                                                                                                                                                                                                                                                                             TYPE: DNA ORGANISM: Mus musculus
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GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
TILLE OF INVENTION: BIOINFORMATICALLY DETECTABLE GROUP OF NOVEL VIRAL REGULATORY GENE
TITLE OF INVENTION: USES THEREOF
FILE REFERENCE: 47487
CURRENT APPLICATION NUMBER: US/10/310,188
CURRENT FILING DATE: 2002-12-19
NUMBER OF SEQ ID NOS: 86841
SSC ID NO 56966
LENGTH: 24
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 30;
                                                                                                                                                                                                                                  APPLICANT: Smith, James M.
APPLICANT: Hua, Jian
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR GENERATING
TITLE OF INVENTION: AN IMMUNE RESPONSE.
FILE REFERENCE: 12804-006001
  Indels
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2.1e+03;
3;
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  Mismatches
                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: US 10/093,953
PRIOR PLING DATE: 2003-01-03
PRIOR PLING DATE: 2003-03-08
PRIOR PLING DATE: 2004-03-08
PRIOR PELING DATE: 2001-03-08
PRIOR PELING DATE: 2001-03-01
PRIOR PELING DATE: 2001-03-01
PRIOR PELING DATE: 2001-03-02
PRIOR APPLICATION NUMBER: PCT/US01/06795
PRIOR PELING DATE: 2000-12-01
PRIOR PELING DATE: 2000-12-01
PRIOR PELING DATE: 2000-03-02
PRIOR PELING DATE: 2000-03-02
PRIOR FILING DATE: 2000-03-02
PRIOR PELING DATE: 2000-03-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 13.8;
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SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/10/336,566 CURRENT FILING DATE: 2003-01-03
                                                                                                                                                                              Sequence 22, Application US/10336566 GENERAL INFORMATION:
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61.1%;
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                                                                             25 ATGGCGTATCGATGCGA 9
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Best Local Similarity 64.7%;
Matches 11; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA ORGANISM: Artificial Sequence
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11; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; ORGANISM: Homo sapiens US-10-310-188-56966
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Best Local Similarity
Matches 11; Conserv
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Matches
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COCATION: (3144703)...(3144745)
COTHER INFORMATION: Chromosome = 1 Strand = positive ConnectronObjectNumber = US-10-287-787-21425
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TITLE OF INVENTION: Methods of Genetic Analysis of Probes: HG-U133
FILE REFERENCE: 3121
CURRENT APPLICATION NUMBER: US/10/355,577
CURRENT FILING DATE: 2003-01-31
NUMBER OF SEQ ID NOS: 997516
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
SEQ ID NO 821852
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                                                                                                                                                                                                                                                                                                Length 43;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 4996, Application US/10287787
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Feldmann. Richard J.; Global Determinants, Inc.
TITLE OF INVENTION: Caulobacter crescentus complete genome.
FILE REFERENCE: Jim Zegeer Law Offices - 703-684-8333
CURRENT PALING DATE: 2013-03-03
NUMBER OF SEQ ID NOS: 27958
SSETURE REPERENCE: 2013-03-03
LENGTH: 48
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66.7%; Pred. No. 2.2e+03;
tive 3; Mismatches 3;
                                                                                                                                                                                                                                                                                            73.3%; Score 13.2; DB 15; 66.7%; Pred. No. 2.2e+03; Live 3; Mismatches 3;
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Pred. No. 2.7e+03;
3; Mismatches 0;
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                                                                                                                                             TYPE: DNA ORGANISM: Caulobacter crescentus complete genome.
                                                                                                                                                                                                                                                                                                                                     3; Mismatches
                   CURRENT APPLICATION NUMBER: US/10/287,787
CURRENT FILING DATE: 2003-03-03
NUMBER OF SEQ ID NOS: 27958
SSOFWARE: Proprietary
SEQ ID NO 21425
LENGTH: 43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; Sequence 821852, Application US/10355577; GENERAL INFORMATION:
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OTHER INFORMATION: Chromosome
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Matches 12; Conservative
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US-10-355-577-821852
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Matches 12; Conserv
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Best Local Similarity
Matches 10; Conserv
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US-10-355-577-821852
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; OTHER INFORMATION: Chromosome = 1 Strand = negative ConnectronObjectNumber = 14264
US-10-287-787-12927
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                     25;
                                                                                                                                                                                                                                           Sequence 64253, Application US/60475871
GENERAL INFORMATION:
APPLICANT: Wyeth Research
APPLICANT: Wounts, William M.
APPLICANT: Murphy, Ellen M.
TITLE OF INVENTION: Staphylococcus Aureus Nucleic Acid Arrays
FILE REFERENCE: AM101085:
CURRENT APPLICATION NUMBER: US/60/475,871
CURRENT FILING DATE: 2003-06-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 12927, Application US/10287787
GENERAL INFORMATION:
APPLICANT: Feldmann, Richard J.; Global Determinants, Inc.
TITLE OF INVENTION: Caulobacter crescentus complete genome.
FILE REFERENCE: Jim Zegeer Law Offices - 703-684-8333
CURRENT APPLICATION NUMBER: US/10/287,787
CURRENT FILING DATE: 2003-03-03
NUMBER OF SEQ ID NOS: 27958
SOFTWARE: Proprietary
SEQ ID NO 12927
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GENERAL INFORMATION:
APPLICANT: Feldmann, Richard J.; Global Determinants, Inc.
TITLE OF INVENTION: Caulobacter crescentus complete genome.
FILE REFERENCE: Jim Zegeer Law Offices - 703-684-8333
                       Length
                                                                Indels
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Pred. No. 2.1e+03;
                     Score 13.2; DB 18;
Pred. No. 2.1e+03;
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                                                              3; Mismatches
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                                                                                                    1 AAUGGCCUAUCGGUGCGA 18
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SOFTWARE: PatentIn version 3.1
                     73.3%;
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Best Local Similarity 66.7%;
Matches 12; Conservative
                                                                                                                            4 AATGGCCATTCTGTGCGA
Local Similarity 66.7 nes 12; Conservative
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US-10-287-787-21425
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US-60-475-871-64253
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LENGTH: 25
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Matches
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US-10-355-577-152466
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TITLE OF INVENTION: Methods of Genetic Analysis of Arabidopsis Thaliana FILE REFERENCE: 3116.1
CURRENT APPLICATION NUMBER: US/09/954,445A
CURRENT PILING DATE: 2000-09-17
PRIOR PILING DATE: 2000-09-18
NUMBER OF SEQ ID NOS: 131820
SOFTWARE: Michael Sequence Listing Generator V 1.1
SEQ ID NO 39955
LENGTH: 25
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Sequence 133076, Application US/10355577

GENERAL INFORMATION:

APPLICANT: Mittenn, Michael

TITLE OF INVENTION: Methods of Genetic Analysis of Probes: HG-U133

FILLE REFERENCE: 3121

CURRENT APPLICATION NUMBER: US/10/355,577

CURRENT APPLICATION NUMBER: US/10/355,577

SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

SEQ ID NO 133076

LENGTH: 25
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TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
FILE REPRENENCE: 3528
CURRENT APPLICATION NUMBER: US/60/427,808
CURRENT APPLICATION DATE: 2002-11-20
NUMBER OF SEQ ID NOS: 982914
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
SEQ ID NO 512279
LENGTH: 25
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Best Local Similarity 62.5%; Pred. No. 3.5e+03;
Matches 10; Conservative 4; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pred. No. 2.7e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3; Mismatches
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Sequence 39955, Application US/09954445A
GENERAL INFORMATION:
                                                                                                S-60-427-808-512279/c
Sequence 512279, Application US/60427808
GENERAL INFORMATION:
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76.9%;
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1 AAUGGCCUAUCGG 13
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Best Local Similarity 76.9
Matches 10; Conservative
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ORGANISM: Homo sapien
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TITLE OF INVENTION: Methods of Genetic Analysis of Probes: HG-U133
FILLE REPERENCE: 3121
CURRENT APPLICATION NUBER: US/10/355,577
CURRENT FILING DATE: 2003-01-31
NUMBER OF SEQ ID NOS: 997516
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
SEQ ID NO 152466
LENGTH: 25
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 Length 25;
                                       Indels
Score 12.8; DB 14;
Pred. No. 3.5e+03;
3; Mismatches 2;
                                                                                                                                                                                                            ; Sequence 152466, Application US/10355577; GENERAL INFORMATION:
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 71.1%;
68.8%;
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5 AAGGACTATCGGTGCG 20
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Best Local Similarity 62.5%;
Matches 10; Conservative
                                                                             2 AUGGCCUAUCGGUGCG 17
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Best Local Similarity 68.8
Matches 11; Conservative
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ORGANISM: Homo sapien
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